

Case Creation Option

Case "09924292" already exists. Please overwrite it or cancel the operation.

The Contents of Case "09924292"

Qnum	Query	DB Name	Thesaurus	Operator	Plural
Q1	methylquinoxaline	USPT,PGPB	None	ADJ	YES
Q2	methylquinoxaline or 2-methylquinoxaline	USPT,PGPB	None	ADJ	YES
Q3	methylquinoxaline n5 carboxylic acid or 2-methylquinoxaline carboxylic acid	USPT,PGPB	None	ADJ	YES
Q4	methylquinoxaline carboxylic acid or 2-methylquinoxaline carboxylic acid	USPT,PGPB	None	ADJ	YES
Q5	(methylquinoxaline same carboxylic acid) or (2-methylquinoxaline same carboxylic acid)	USPT,PGPB	None	ADJ	YES
Q6	Q2 and Q5	USPT,PGPB	None	ADJ	YES
Q7	absidia or Alternaria or Aspergillus or Cunninghamella or Giumerella or Penicillium or Pseudomonas	USPT,PGPB	None	ADJ	YES
Q8	(Production or synthesis or tansformatiuon or bioconversion)	USPT,PGPB	None	ADJ	YES
Q9	Q5 and Q8	USPT,PGPB	None	ADJ	YES
Q10	Q6 and Q8	USPT,PGPB	None	ADJ	YES
Q11	Q9 and Q10	USPT,PGPB	None	ADJ	YES
Q12	Q7 and Q11	USPT,PGPB	None	ADJ	YES
Q13	Q2 and Q7	USPT,PGPB	None	ADJ	YES
Q14	Q5 and Q7	USPT,PGPB	None	ADJ	YES
Q15	Q9 and Q13	USPT,PGPB	None	ADJ	YES
Q16	((435/117)!.CCLS.)	USPT,PGPB	None	ADJ	YES
Q17	((((435/243)!.CCLS.))	USPT,PGPB	None	ADJ	YES
Q18	((((435/254.1)!.CCLS.))	USPT,PGPB	None	ADJ	YES
Q19	((((435/254.3)!.CCLS.))	USPT,PGPB	None	ADJ	YES

Q20	((((435/254.5)! .CCLS.))	USPT,PGPB	None	ADJ	YES
Q21	Q19 and Q20	USPT,PGPB	None	ADJ	YES
Q22	Q18 and Q21	USPT,PGPB	None	ADJ	YES
Q23	Q17 and Q22	USPT,PGPB	None	ADJ	YES
Q24	Q16 and Q17	USPT,PGPB	None	ADJ	YES
Q25	Q16 and Q22	USPT,PGPB	None	ADJ	YES
Q26	((methylquinoxaline/)!.IPC. (2-methylquinoxaline/)!.IPC. (or/)!.IPC.)	JPAB,EPAB,DWPI	None	ADJ	YES
Q27	((((methylquinoxaline/)!.IPC. (2-methylquinoxaline/)!.IPC. (or/)!.IPC.))	JPAB,EPAB,DWPI	None	ADJ	YES
Q28	methylquinoxaline or 2-methylquinoxaline	JPAB,EPAB,DWPI	None	ADJ	YES
Q29	(methylquinoxaline same carboxylic acid) or (2-methylquinoxaline same carboxylic acid)	JPAB,EPAB,DWPI	None	ADJ	YES
Q30	absidia or Alternaria or Aspergillus or Cunninghamella or Giumerella or Penicillium or Pseudomonas	JPAB,EPAB,DWPI	None	ADJ	YES
Q31	(Production or synthesis or tansformatiuon or bioconversion)	JPAB,EPAB,DWPI	None	ADJ	YES
Q32	Microbial or fungal or bacterial or biological	JPAB,EPAB,DWPI	None	ADJ	YES
Q33	Q31 and Q32	JPAB,EPAB,DWPI	None	ADJ	YES
Q34	Q30 and Q31	JPAB,EPAB,DWPI	None	ADJ	YES
Q35	Q30 and Q32	JPAB,EPAB,DWPI	None	ADJ	YES
Q36	Q29 and Q35	JPAB,EPAB,DWPI	None	ADJ	YES
Q37	Q29 and Q34	JPAB,EPAB,DWPI	None	ADJ	YES
Q38	Q29 and Q33	JPAB,EPAB,DWPI	None	ADJ	YES
Q39	Q29 and Q32	JPAB,EPAB,DWPI	None	ADJ	YES
Q40	Q29 and Q31	JPAB,EPAB,DWPI	None	ADJ	YES
Q41	Q29 and Q30	JPAB,EPAB,DWPI	None	ADJ	YES
Q42	Q28 and Q30	JPAB,EPAB,DWPI	None	ADJ	YES
Q43	Q28 and Q31	JPAB,EPAB,DWPI	None	ADJ	YES
Q44	Q29 and Q42	JPAB,EPAB,DWPI	None	ADJ	YES
Q45	Q29 and Q43	JPAB,EPAB,DWPI	None	ADJ	YES

Q46	Q40 and Q43	JPAB,EPAB,DWPI	None	ADJ	YES
Q47	Q40 and Q42	JPAB,EPAB,DWPI	None	ADJ	YES

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: K. C. SRIVASTAVA Examiner #: 77964 Date: 04/03/2003
 Art Unit: 1651 Phone Number 303-605-1196 Serial Number: 091942,242
 Mail Box and Bldg/Room Location: CM1/11B01 Results Format Preferred (circle): PAPER DISK E-MAIL
R.M. # CM1/11A12

If more than n search is submittd, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

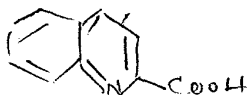
Title of Invention:

CONVERSION OF BICYCLIC HETEROAROMATIC COMPOUNDS,
 Inventors (please provide full names): JAMES J. CANNIGLEY & JOHN W. WONG

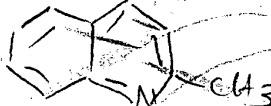
Earliest Priority Filing Date: 08/09/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

micobial
 Please search / conversion ~~of~~ to



from



C
 CLAIMS
 1-3

with

I Pseudomonas
Cunninghamella
Alternaria
Absidia
Aspergillus
Gliomirella
Penicillium

and mycotoxin.

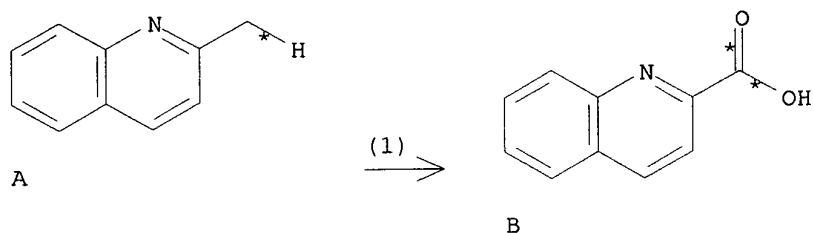
Formula List organic solvent
 extraction
 chromatography } Claim 19
 purification

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CLAIMS ATTACHED

STAFF USE ONLY

Searcher:	Type of Search	Vendors and cost where applicable
<u>MARY</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>4/3</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____



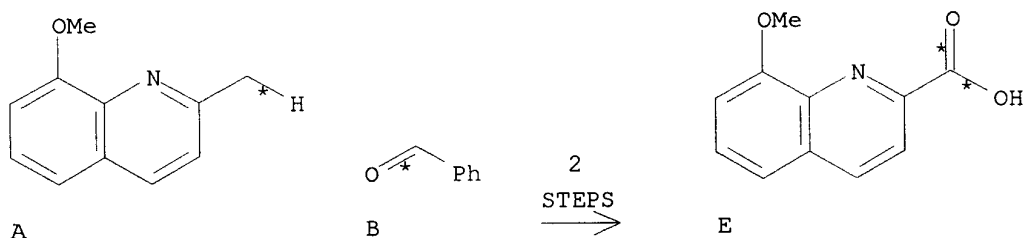
RX(1) RCT A 91-63-4
 PRO B 93-10-7
 CAT 9001-62-1 Lipase
 SOL 7732-18-5 Water
 NTE enzymic, biotransformation, described media

136:308633 Microbial conversion of bicyclic heteroaromatic compounds. Cawley, James J.; Wong, John W. (USA). U.S. Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-924292 20010808. PRIORITY: US 2000-PV224089 20000809.

AB The present invention relates to processes for the microbial oxidn. of bicyclic heteroarom. compds. which comprise contacting these compds. with a microorganism, or a suitable mutant thereof, and incubating the resulting mixt. under conditions sufficient to yield an amt. of their resp. carboxylic acids. The present processes optionally further comprise the isolation and purifn. of the product carboxylic acids. Thus, *Pseudomonas putida* ATCC 33015 converted 3-methylquinoline to 3-quinolinecarboxylic acid with a yield of 9%.

L3 ANSWER 4 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(7) OF 20 COMPOSED OF RX(1), RX(2)
 RX(7) A + B ==> E



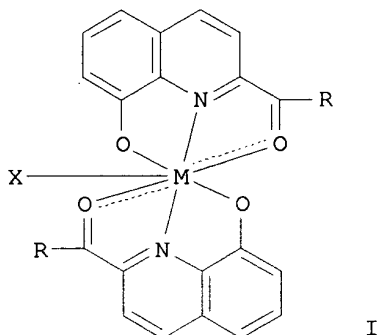
RX(1) RCT A 3033-80-5, B 100-52-7
 PRO C 78224-64-3
 SOL 108-24-7 Ac2O
 NTE under nitrogen

RX(2) RCT C 78224-64-3
 RGT F 7446-08-4 SeO2
 PRO E 21141-35-5
 SOL 1330-20-7 Xylene
 NTE reflux

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135:297636 Preparation of 8-hydroxyquinoline-metal complexes and application in electroluminescence. Ouyang, Jianming (Jinan Univ., Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1282735 A 20010207, 19 pp. (Chinese). CODEN: CNXXEV. APPLICATION: CN 2000-117371 20000826.

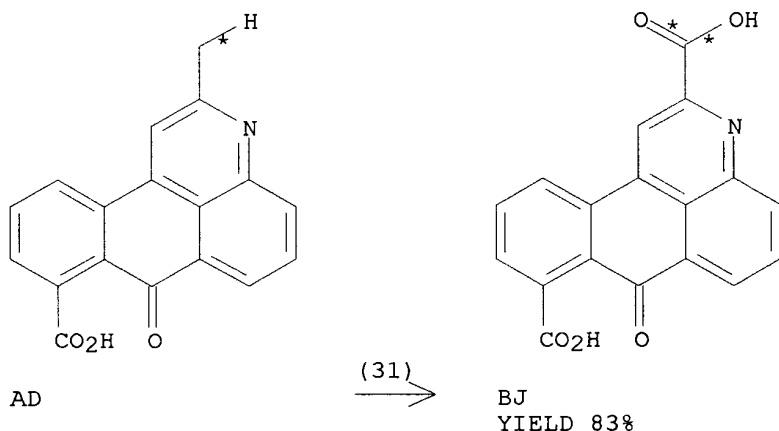
GI



AB Title compds. [I; R = O(CH₂)₁₁CH₃, O(CH₂)₁₃CH₃, O(CH₂)₁₅H₃, (CH₂)₁₇CH₃; M = Mn, Co, Ni, Cu, Zn, Cd, Pb, Ca, Mg, Al, La, Gd, Er; X = Cl, OH, electron pair; dotted bond = bond, no bond] are prepd. by condensing 8-methoxy-2-methylquinoline with benzaldehyde in acetic anhydride at 150-160.degree. under bubbling N₂, followed by oxidn. with SeO₂ in xylene at 150- 160.degree., hydrolyzing with H₃PO₄ in the presence of KI at 215-225.degree. to obtain 8-hydroxyquinoline-2-carboxylic acid, and acylating with RBr in the presence of triethylamine at 105-110.degree.. The complexes of the ligand are prepd. from metal halides. Thus, the title compd. I (R = O(CH₂)₁₅CH₃; X = electron pair; dotted bond = bond) was prepd. The electroluminescence film is manufd. by vacuum vapor deposition at (0.1-5) x 10⁻³ Pa. The nanometric film is also manufd.

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RX(31) OF 188 ...AD ==> BJ...



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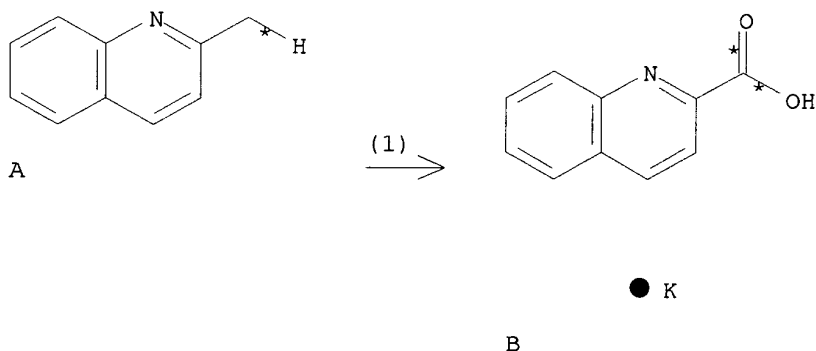
RX(31) RCT AD **348616-74-0**
RGT BD 7558-80-7 NaH₂PO₄, BE 7758-19-2 NaOClO, BF 513-35-9 Me₂C:CHMe
PRO BJ **348616-85-3**
SOL 7732-18-5 Water, 75-65-0 t-BuOH

135:92529 Synthesis and Cytotoxic Activity of 7-Oxo-7H-dibenz[f,i]isoquinoline and 7-Oxo-7H-benzo[e]perimidine Derivatives. Bu, Xianyong; Deady, Leslie W.; Finlay, Graeme J.; Baguley, Bruce C.; Denny, William A. (Chemistry Department, La Trobe University, Bundoora, 3083, Australia). Journal of Medicinal Chemistry, 44(12), 2004-2014 (English) 2001. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

AB A series of 7-oxo-7H-dibenz[f,i]isoquinolines and 7-oxo-7H-benzo[e]perimidines bearing cationic side chains were prepd. from aminoanthraquinones. The perimidines were prepd. from 1-aminoanthraquinone by initial condensation with urea or dimethylacetamide. A series of 2-, 4-, 8-, and 11-carboxy derivs. of the dibenzisoquinolines were prepd. from aminoanthraquinonecarboxylic acids. The cationic derivs. were prepd. from these via amide, amine, or methylene linkers to study the effects of side chain positioning on biol. activity. Within the series of carboxamide-linked compds., the order of increasing cytotoxicity was 8- < 4- < 2- < 11-. The 2- and 4-carboxamides showed substantial growth delays against in vivo s.c. colon 38 tumors in mice, but the 11-carboxamide had curative activity in this refractory model and is being investigated further.

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RX(1) OF 1 A ==> B



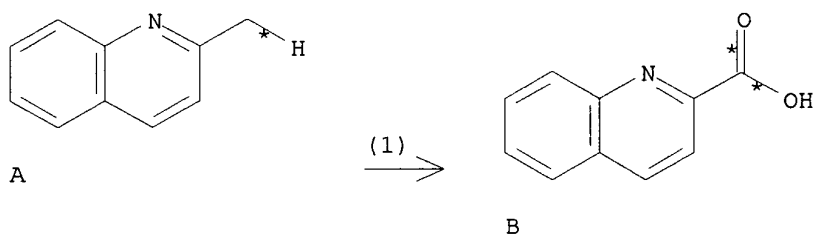
RX(1) RCT A **91-63-4**
RGT C 7782-44-7 O₂, D 1310-58-3 KOH
PRO B **84356-48-9**
NTE 150.degree. for 3 h, 10% conversion yield with 83% selectivity
127:248020 Process for preparation of carboxylbenzopyridine derivatives by oxidation. Fujibayashi, Ryoichi; Yamada, Shigeji (Sumikin Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09249649 A2 19970922 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-61329 19960318.
AB Characterized is a process for prepn. of the title compds. by oxidn. of alkylbenzopyridine using mol. O in the presence of alkali metal hydroxide in org. solvents. The title compds., useful materials for drugs and pesticides, are prepd. in an industrial manner efficiently and economically under mild condition. Thus, 2-methylquinoline was oxidized

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by O in the presence of KOH at 150.degree. for 3 h to give potassium 2-quinolinecarboxylate with 10.1% conversion yield and 82.5% selectivity.

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RX(1) OF 1 A ==> B



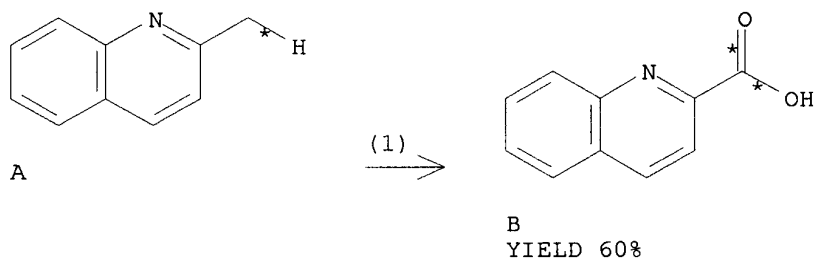
RX(1) RCT A 91-63-4
RGT C 7782-44-7 O2
PRO B 93-10-7
CAT 71-48-7 Co(OAc)2, 638-38-0 Mn(OAc)2, 7758-02-3 KBr
SOL 64-19-7 AcOH
NTE 150.degree.

123:228007 Preparation of quinaldic acid. Namekata, Takeshi; Ito, Ikuo; Sato, Toshio (Sumikin Kako Kk, Japan). Jpn. Kokai Tokkyo Koho JP 07188175 A2 19950725 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-330983 19931227.

AB Quinaldic acid (I) is prepd. by oxidn. of quinaldine (II) by mol. oxygen in the presence of catalysts. Thus, oxidn. of 10.1 g II in 200 mL acetic acid contg. cobalt(II) acetate tetrahydrate 27.29 g, manganese(II) acetate tetrahydrate 26.85 g, and potassium bromide 6.24 g under air at 150.degree. gave I in 64.5 mol% yield, vs. 12 mol% in a ref. process.

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RX(1) OF 2 A ==> B



RX(1) RCT A 91-63-4
RGT C 865-47-4 t-BuOK, D 7782-44-7 O2
PRO B 93-10-7
SOL 67-68-5 DMSO
NTE 1 h at 20.degree.

122:265265 Preparation of benzopyridinecarboxylic acids as pharmaceutical and

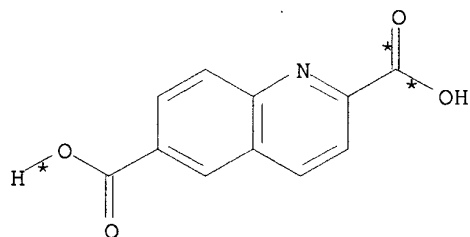
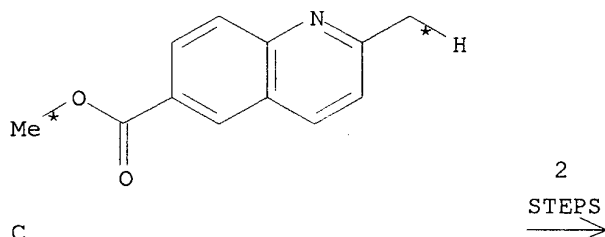
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agrochemical intermediates. Ito, Ikuo; Hasegawa, Tooru; Sato, Toshio (Sumikin Kako Kk, Japan). Jpn. Kokai Tokkyo Koho JP 07048353 A2 19950221 Heisei, 4 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-211105 19930804.

AB The title compds. are prepd. by oxidn. of alkylbenzopyridines by mol. oxygen in the presence of alkali metal alcoholates. Oxidn. of 2-methylquinoline in DMSO contg. potassium tert-butoxide under oxygen atm. at 20.degree. gave , after workup, 2-quinolinecarboxylic acid in 60 mol% yield.

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RX(10) OF 14 COMPOSED OF RX(2), RX(3)
RX(10) C ==> G



G
YIELD 50%

RX(2) RCT C 108166-01-4
RGT F 7726-95-6 Br2
PRO E 124551-28-6

RX(3) RCT E 124551-28-6
RGT D 7664-93-9 H2SO4
PRO G 117140-75-7

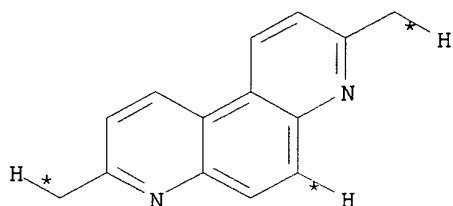
112:36491 Synthesis and characterization of new quinoline monomers. Bottino, F. A.; Di Pasquale, G.; Pollicino, A.; Recca, A.; Staniland, P. A. (Fac. Ing., Univ. Catania, Catania, 95125, Italy). Journal of Heterocyclic Chemistry, 26(4), 929-31 (English) 1989. CODEN: JHTCAD. ISSN: 0022-152X.

AB Quinoline-2,6-dicarboxylic acid and 6-aminoquinoline-2-carboxylic acid were synthesized.

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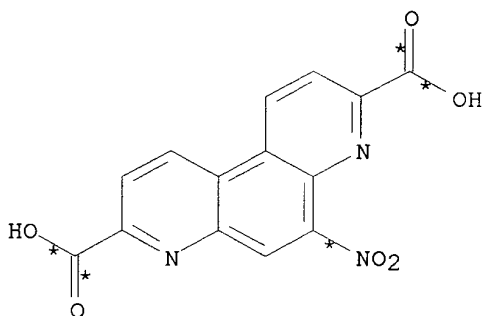
Searched by: Mary Hale 308-4258 CM-1 1E01

RX(2) OF 2 **A** ==> **E**



A

(2)
→

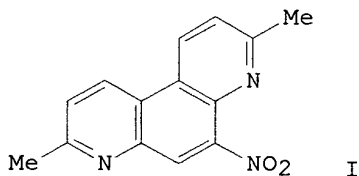


E

RX(2) RCT A **36749-63-0**
 RGT C 7697-37-2 HNO3, D 7664-93-9 H2SO4, F 7446-11-9 SO3
 PRO E **117561-92-9**
 SOL 7697-37-2 HNO3, 7664-93-9 H2SO4

109:230835 Optimization of conditions for nitration of 3,8-dimethyl-4,7-phenanthroline by information cause-and-effect analysis methods. Goldin, A. R.; Savosin, I. V.; Taganov, I. N.; Shaburov, V. V. (USSR). Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation), 61(2), 382-8 (Russian) 1988. CODEN: ZPKHAB. ISSN: 0044-4618.

GI



I

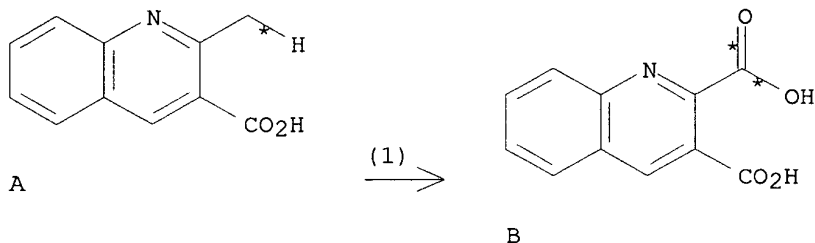
AB The title optimization, with HNO3-H2SO4, to give 22-34% 5-nitro deriv. I,

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was carried out.

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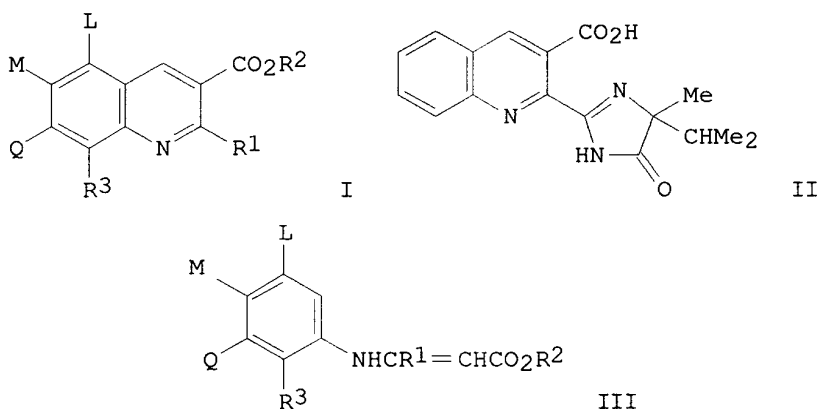
RX(1) OF 124 A ==> B



RX(1) RCT A 635-79-0
RGT C 1310-73-2 NaOH, D 141-52-6 NaOEt, E 7664-41-7 NH3
PRO B 643-38-9

107:134222 Preparation of substituted 2-methyl-3-quinolinecarboxylic acid and quinoline-2,3-dicarboxylic acid as intermediates for imidazolinyquinoline herbicides. Doehner, Robert F., Jr. (American Cyanamid Co., USA). U.S. US 4656283 A 19870407, 25 pp. Cont.-in-part of U.S. Ser. No. 381,815, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1985-698192 19850204. PRIORITY: US 1982-381815 19820525; US 1983-489401 19830505.

GI



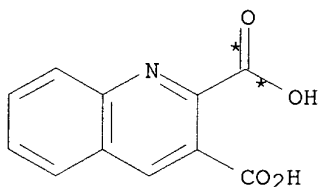
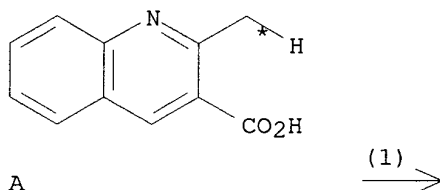
AB A method for the prepn. of quinolines I (R1 = Me, CO2R2; R2 = C1-4 alkyl; L, M, Q, R3 = H, halo, C1-4 alkyl, alkoxy, alkylthio, alkylsulfonyl, haloalkyl, NO2, etc.), useful as intermediates for the prepn. of 2-(2-imidazolin-2-yl)quinoline (II) herbicidal agents, comprised the reaction of an aniline III with an approx. equimolar amt. of ClCH:N+R42.X (R4 = C1-4 alkyl; NR42 forms a 5- or 6-membered ring; X = PO2Cl2-, Cl-) in the presence of an (un)chlorinated hydrocarbon solvent or mixts. thereof at 40-110.degree.. The Vilsmeier reagent from DMF and POCl3 in (CH2Cl)2 was treated with di-Et 3-phenylaminobut-2-enedioate to give I (L, M, Q, R3 = H, R1 = CO2Et, R2 = Et) which was sapond. to the corresponding dicarboxylic acid. This was cyclodehydrated with Ac2O to

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2,3-quinolinedicarboxylic anhydride which was amidated with $\text{Me}_2\text{CHCMe}(\text{NH}_2)\text{CONH}_2$ to give I [$\text{R}_1 = \text{CONHMe}(\text{CHMe}_2)\text{CONH}_2$, $\text{R}_2 = \text{R}_3 = \text{L} = \text{M} = \text{Q} = \text{H}$]. This was cyclized with aq. NaOH to give imidazole II. At 1.0 kg/ha postemergence, II completely killed barnyard grass, green foxtail, wild oats, barley, corn, and sunflower, and almost completely killed purple nutsedge, quackgrass, field bindweed, morning glory, ragweed, velvet leaf, etc.

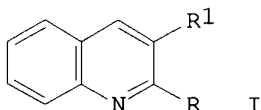
L3 ANSWER 12 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(1) OF 4 A ==> B



RX(1) RCT A **635-79-0**
 RGT C 1310-73-2 NaOH
 PRO B **643-38-9**
 CAT 11099-02-8 Nickel oxide
 SOL 7732-18-5 Water
 106:4835 Oxidation of methylquinolines with nickel peroxide. Ladner, David W. (Agric. Res. Div., Am. Cyanamid Co., Princeton, NJ, 08560, USA). Synthetic Communications, 16(2), 157-62 (English) 1986. CODEN: SYNCAV. ISSN: 0039-7911.

GI



AB Oxidn. of quinolinecarboxylic acids I ($\text{R} = \text{Me}$, $\text{R}_1 = \text{CO}_2\text{H}$; $\text{R} = \text{CO}_2\text{H}$, $\text{R}_1 = \text{Me}$) with 3.25 equiv nickel peroxide in aq. base at room temp. gave I ($\text{R} = \text{R}_1 = \text{CO}_2\text{H}$). No reaction occurred with methyl pyridinecarboxylic acids under the same conditions.

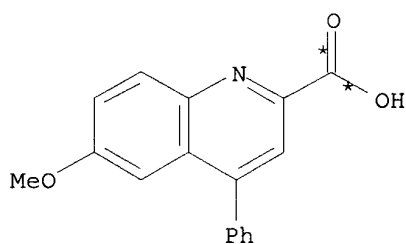
L3 ANSWER 13 OF 22 CASREACT COPYRIGHT 2003 ACS

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COC1=CC=C2C(=C1)N(C=C2)C(=C3C=CC(=C3)C=C3C=CC(=C3)C=C3)C=C4C=CC(=C4)C=C4

$\text{O} \begin{array}{c} \diagup \\ \diagdown \end{array} \text{Ph}$

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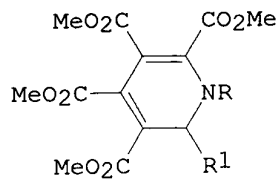


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RX(3)      RCT  G 83640-72-6, H 100-52-7
           RGT  J 7646-85-7 ZnCl2
           PRO  I 83640-69-1

RX(7)      RCT  I 83640-69-1
           RGT  Q 7722-64-7 KMnO4, R 7732-18-5 Water
           PRO  K 345928-12-3
           CAT  110-86-1 Pyridine
           SOL  7732-18-5 Water
```

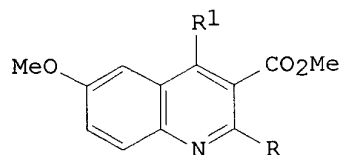
97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

Searched by: Mary Hale 308-4258 CM-1 1E01



I, R=4-MeOC₆H₄, R¹=Ph

IV, R=Ph, R¹=4-MeOC₆H₄



II, R=CO₂Me, R¹=Ph

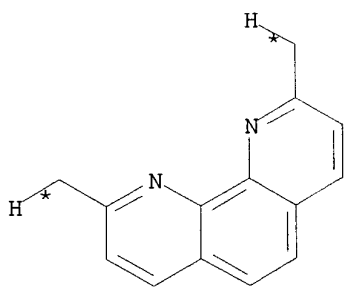
III, R=Ph, R¹=CO₂Me

AB The reaction of N-benzylidene-p-anisidine with MeO₂CC.tplbond.CCO₂Me in refluxing xylene-nitrobenzene gave low yields of bis-adduct I and dehydro-adducts II and III. p-Anisylideneaniline under similar conditions gave dihydropyridine IV and an abnormal bis-adduct. Benzylideneaniline gave only an abnormal bis-adduct.

L3 ANSWER 14 OF 22 CASREACT COPYRIGHT 2003 ACS

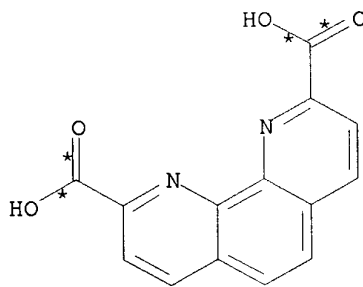
RX(9) OF 14 COMPOSED OF RX(2), RX(3)

RX(9) D ==> G



D

2
STEPS
→



G
YIELD 61%

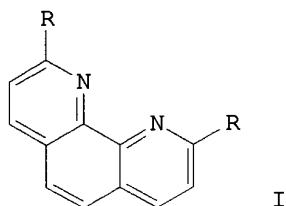
RX(2) RCT D 484-11-7
RGT F 7446-08-4 SeO₂
PRO E 57709-62-3

RX(3) RCT E 57709-62-3
RGT H 7697-37-2 HNO₃
PRO G 57709-61-2

95:97633 Synthesis of some 2,9-disubstituted-1,10-phenanthrolines. Chandler, Christopher J.; Deady, Leslie W.; Reiss, James A. (Org. Chem. Dep., La Trobe Univ., Bundoora, 3083, Australia). Journal of Heterocyclic Chemistry, 18(3), 599-601 (English) 1981. CODEN: JHTCAD. ISSN: 0022-152X.

GI

Searched by: Mary Hale 308-4258 CM-1 1E01

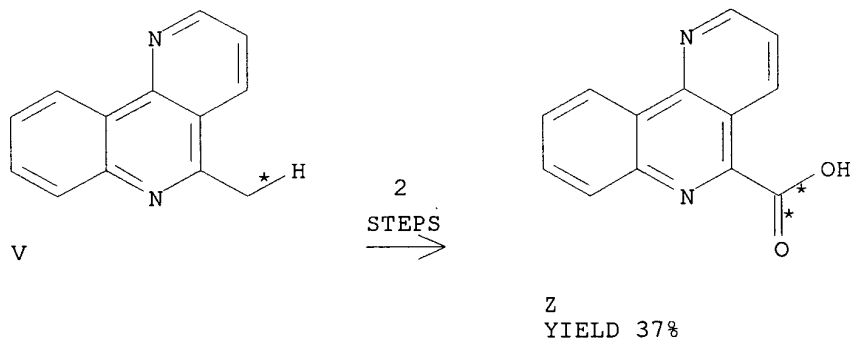


AB I (R = Me, CHO, CO₂H, CN, CO₂Me, CH:NOH, CH₂NH₂, CH₂OH, CH₂Br, CBr₃, CCl₃) were prepd. from 2,9-dimethyl-1,10-phenanthroline. NMR data are also reported.

L3 ANSWER 15 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(14) OF 15 COMPOSED OF RX(10), RX(11)

RX(14) V ==> Z



RX(10) RCT V **34016-27-8**
RGT X 7446-08-4 SeO₂
PRO W 69164-27-8
SOL 123-91-1 Dioxane

RX(11) RCT W 69164-27-8
RGT AA 7722-84-1 H₂O₂
PRO Z **69164-28-9**

90:103866 Syntheses of nitrogen-containing heterocyclic compounds. XXXII. On the antimicrobial activity of diazaphenanthrenes and syntheses of triazaphenanthrenes related to nalidixic acid. Takeuchi, Isao; Ozawa, Isao; Ogaki, Toshiro; Hamada, Yoshiki; Ito, Tomiyoshi (Fac. Pharm., Meijo Univ., Nagoya, Japan). Yakugaku Zasshi, 98(9), 1279-85 (Japanese) 1978. CODEN: YKKZAJ. ISSN: 0031-6903.

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

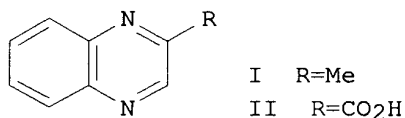
Searched by: Mary Hale 308-4258 CM-1 1E01

L38 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
2002:279737 Document No.: PREV200200279737. Microbial conversion of 2-methylquinoxaline. Burns, Michael P. (1); **Cawley, James J.; Wong, John W.** (1) Mystic, CT USA. ASSIGNEE: Pfizer Inc.. Patent Info.: US 6361979 March 26, 2002. Official Gazette of the United States Patent and Trademark Office Patents, (Mar. 26, 2002) Vol. 1256, No. 4, pp. No Pagination. <http://www.uspto.gov/web/menu/patdata.html>. e-file. ISSN: 0098-1133. Language: English.

AB The present invention relates to processes for the microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid which comprise contacting 2-methylquinoxaline with a microorganism, or a suitable mutant thereof, and incubating the resulting mixture under conditions sufficient to yield an amount of said 2-quinoxalinecarboxylic acid. The present processes optionally further comprise the isolation and purification of 2-quinoxalinecarboxylic acid.

L38 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
2002:247243 Document No. 137:32104 Biocatalytic oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid. **Wong, John W.**; Watson, Harry A., Jr.; Bouressa, James F.; Burns, Michael P.; **Cawley, James J.**; Doro, Albert E.; Guzek, Donald B.; Hintz, Michael A.; McCormick, Ellen L.; Scully, Douglas A.; Siderewicz, Joseph M.; Taylor, William J.; Truesdell, Susan J.; Wax, Richard G. (Bioprocess Research and Development, Pfizer Global Research and Development, Groton, CT, 06340, USA). Organic Process Research & Development, 6(4), 477-481 (English) 2002. CODEN: OPRDFK. ISSN: 1083-6160. OTHER SOURCES: CASREACT 137:32104. Publisher: American Chemical Society.

GI



AB A microbial process using the fungus *Absidia repens* ATCC 14849 is described for the oxidn. of 2-methylquinoxaline (I) to 2-quinoxalinecarboxylic acid (II). A campaign consisting of 3 14,000-L runs produced 20.5 kg of II with a 28% overall yield. The bioconversion gave a lower yield compared with a 3-step chem. synthesis (35%), but was carried out in 1 pot and avoided safety issues with a di-N-oxide intermediate. Although successfully scaled to produce kilograms of II for synthesis of a drug candidate, the *A. repens* bioconversion is unsuitable for further scale-up due to low product concn. (.apprx.1 g/L). A 2nd microbial process using *Pseudomonas putida* ATCC 33015 is also described for the oxidn. of I. The *P. putida* bioconversion gave an 86% in situ yield at 8-L scale and yielded a product concn. .apprx.10-fold greater than that of the *A. repens* bioconversion.

L38 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
2000:573568 Document No. 133:134260 Microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid and purification of product from fermentation medium. Burns, Michael Paul; **Cawley, James Joseph; Wong, John Wing** (Pfizer Products Inc., USA). Eur.

Searched by: Mary Hale 308-4258 CM-1 1E01

Pat. Appl. EP 1028164 A1 20000816, 20 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 2000-300936 20000207. PRIORITY: US 1999-PV119942 19990212.

AB Microbial oxidn. of 2-methylquinoxalinal to 2-quinoxalinecarboxylic acid comprises contacting 2-methylquinoxaline with a microorganism, or a suitable mutant, and incubating the resulting mixt. under conditions sufficient to yield an amt. of 2-quinoxalinecarboxylic acid. Process for isolation and purifn. of 2-quinoxalinecarboxylic acid is also described.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
22.43	715.85

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.95	-25.98

CA SUBSCRIBER PRICE

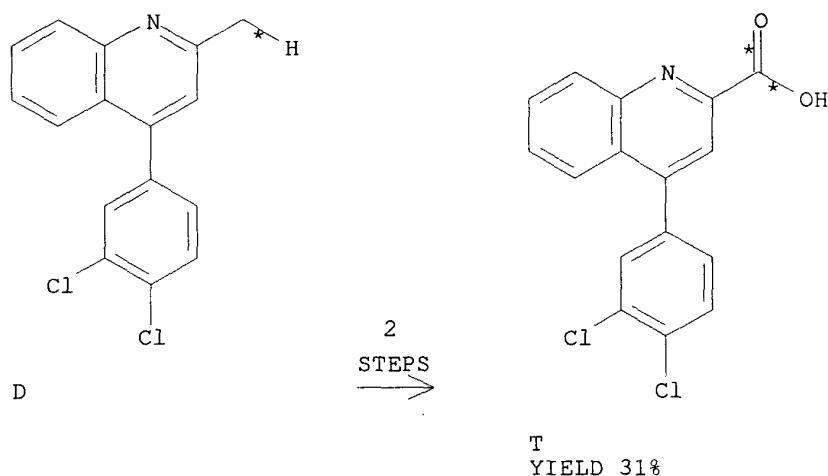
STN INTERNATIONAL LOGOFF AT 13:59:28 ON 03 APR 2003

AB 2-Aminoquinoline and 3-amino-1,8-naphthyridine cyclized with EtOCH:C(CO₂Et)₂ to give pyrimidoquinoline I and triazaphenanthrene II, resp. Hydrolysis of I gave 2-aminoquinoline, whereas Et 4-hydroxy-5-methyl-1,6-phenanthroline-3-carboxylate and II gave 4-hydroxy-5-methyl-1,6-phenanthroline-3-carboxylic acid (III) and 4-hydroxy-1,8,9,-triazaphenanthrene-2-carboxylic acid (IV), resp. N-Alkylation of III, the Et ester of III, and IV gave V, VI, and VII, resp. Methylphenanthroline (VIII) was oxidized with SeO₂ to give IX, which was oxidized with H₂O₂ to give X. Bactericidal testing of the prepd. compds. and diazaphenanthrenes showed that these compds. had antibacterial activity against Pseudomonas aeruginosa.

L3 ANSWER 16 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(19) OF 26 COMPOSED OF RX(2), RX(10)

RX(19) D ==> T

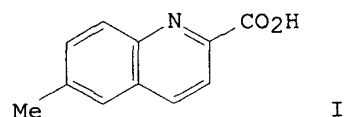


RX(2) RCT D 65714-18-3
RGT F 7726-95-6 Br₂
PRO E 65714-24-1
CAT 64-19-7 AcOH

RX(10) RCT E 65714-24-1
RGT C 7647-01-0 HCl
PRO T 65714-30-9

89:129370 Conversion of the carboxyl group to the corresponding trichloromethyl group in the quinoline series. Takahashi, Kazuyuki; Mitsuhashi, Keiryo (Coll. Technol., Seikei Univ., Tokyo, Japan). Journal of Heterocyclic Chemistry, 14(5), 881-4 (English) 1977. CODEN: JHTCAD. ISSN: 0022-152X.

GI

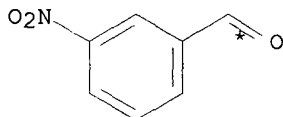
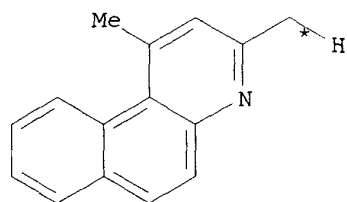


AB Treating the carboxyl groups of quinaldinic acid, I, 6-chloro, 4-phenyl- and 4-(p-chlorophenyl)quinaldinic acids and benzo[f]quinoline-3-carboxylic acid with PBr₃ in excess SOCl₂ converted them to the trichloromethyl group, whereas those of 8-methyl-, 4-(3,4-dichlorophenyl)-, 4-(p-nitrophenyl)quinaldinic acids and benzo[h]quinoline-2-carboxylic acid were unaffected. The difference in reactivity based on the basicity of the ring N and steric effects. The quinaldinic acids were prepd. by bromination of the 2-methylquinolines followed by hydrolysis of the tribromomethyl derivs.

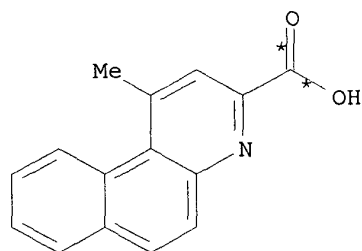
L3 ANSWER 17 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(6) OF 9 COMPOSED OF RX(2), RX(3)

RX(6) D + E ==> G



2
STEPS
→



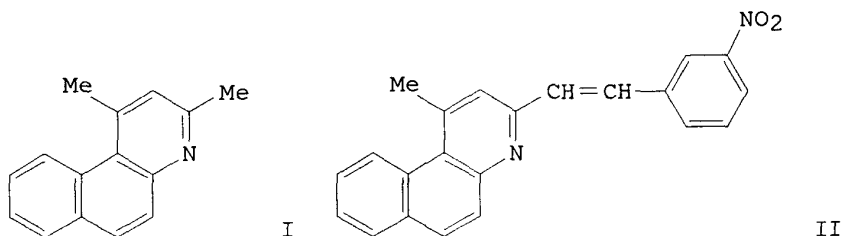
RX(2) RCT D 834-98-0, E 99-61-6
PRO F 343572-09-8

RX(3) RCT F 343572-09-8
PRO G 63359-36-4

87:53050 Structure and synthesis of Reed's base (1,3-dimethyl-5,6-benzoquinoline). Singh, Prem Narayan; Singh, Nityanand (Dep. Chem., A. N. Coll., Patna, India). Indian Journal of Chemistry, Section B: Organic

Searched by: Mary Hale 308-4258 CM-1 1E01

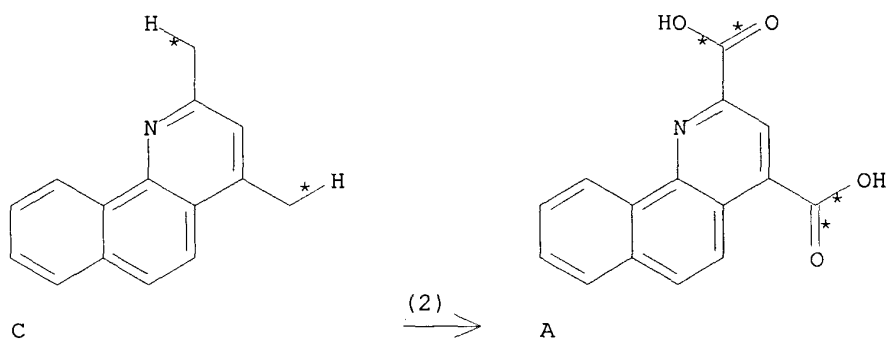
GI



AB Reed's base (I) was prepd. by condensation of 2-naphthylamine, paraldehyde and Me₂CO. I gave benzoquinoline II by refluxing with 3-O₂NC₆H₄CHO in the presence of Ac₂O. Oxidn. and subsequent decarboxylation of II gave 1-methyl-5,6-benzoquinoline. Similarly, I gave 1,3-dinitrostyryl-5,6-benzoquinoline, which on oxidn. and subsequent decarboxylation gave 5,6-benzoquinoline. Structure I was also confirmed by IR and UV spectra.

L3 ANSWER 18 OF 22 CASREACT COPYRIGHT 2003 ACS

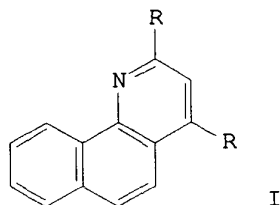
RX(2) OF 4 C ==> A...



RX(2) RCT C 605-67-4
 RGT D 7446-08-4 SeO₂
 PRO A 59656-43-8

85:32801 Chemistry of benzoquinolines. Part VI. Singh, Prem N.; Singh, Nityanand (Dep. Chem., Sci. Coll., Patna, India). Journal of the Indian Chemical Society, 52(11), 1108-9 (English) 1975. CODEN: JICSAH. ISSN: 0019-4522.

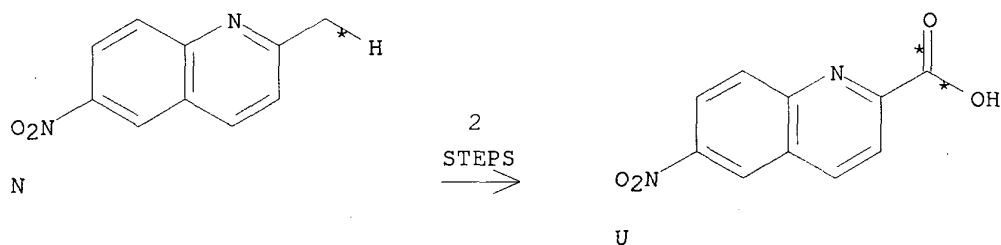
GI



AB Reaction of dimethylbenzoquinoline (I, R = Me) with PhCHO and m-O₂NC₆H₄CHO at elevated temp. in the presence of Ac₂O gave I [R = PhCH:CH (II)], m-O₂NC₆H₄CH:CH], resp. II was oxidized with KMnO₄ in Me₂CO and the resultant I (R = CO₂H) was decarboxylated with sodalime to I (R = H). I (R = CO₂H) was alternatively prepd. by SeO₂ oxidn. of I (R = Me).

L3 ANSWER 19 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(18) OF 23 COMPOSED OF RX(5), RX(9)
 RX(18) N ==> U

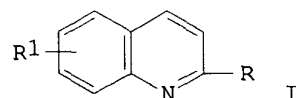


RX(5) RCT N **613-30-9**
 RGT C 7446-08-4 SeO₂
 PRO O 59500-67-3
 SOL 123-91-1 Dioxane

RX(9) RCT O 59500-67-3
 RGT V 7722-84-1 H₂O₂
 PRO U **30836-96-5**
 SOL 67-64-1 Me₂CO

85:5470 Synthesis of quinolinacrylic acids and their biological activity.
 Tadros, W. M.; Shueb, H. A.; Kira, M. A.; Yousif, F.; Ekladios, Esmat M.;
 Ibrahim, S. A. (Natl. Res. Cent., Cairo, Egypt). Indian Journal of
 Chemistry, 13(12), 1366-8 (English) 1975. CODEN: IJOCAP. ISSN:
 0019-5103.

GI

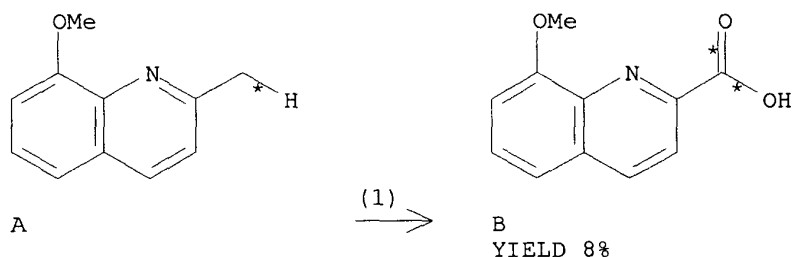


Searched by: Mary Hale 308-4258 CM-1 1E01

AB 3-(2-Quinolyl)-1,1,1-trichloropropan-2-ols I [R = CH₂CH(OH)CCl₃; R₁ = 5-, 6-, 8-NO₂, 5-Cl] were prepd. by the condensation of the I (R = Me) with Cl₃CCHO in the presence of pyridine. I [R = CH₂CH(OH)CCl₃] on alk. hydrolysis gave I (R = CH:CHCO₂H). I (R = CH:CHCO₂H; R₁ = 6-, 7-, 8-Cl) were prepd. by the Knoevenagel reaction of I (R = CHO). I (R = CO₂H, CH:NNHCSNH₂) were also prepd. Some I show antibacterial activity and toxicity against snails. Thus, at 50 .mu.g/ml I (R = CH:CHCO₂Na, R₁ = 8-NO₂) inhibited Staphylococcus aureus. I (R = CH:CHCO₂Na, R₁ = 6-Cl) completely killed Bulinus truncatus.

L3 ANSWER 20 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(1) OF 6 ...A ==> B...



RX(1) RCT A 3033-80-5
RGT C 7446-08-4 SeO₂
PRO B 21141-35-5
SOL 95-47-6 o-Xylene
NTE Classification: Benzylic oxidation; # Conditions: SeO₂ o-xylene;
Rf 15mn

50:12356 8-Hydroxyquinaldic acid. Irving, H. M.; Pennington, A. R. (Univ. Oxford, UK). J. Chem. Soc. 3782-5 (Unavailable) 1954.

AB 8-Methoxyquinaldine (I) is converted to 8-hydroxyquinaldic acid (II) via 8-methoxy-2-styrylquinoline (III) and 8-methoxyquinaldic acid (IV). Crotonaldehyde added over 15 min. to a hot soln. of o-anisidine and o-nitrophenol in 10N HCl, the soln. heated 2 hrs., cooled, and carefully neutralized with concd. aq. NaOH gave a semisolid product which was filtered off, washed with H₂O, air-dried, and distd. to give 44-9% I, b₂₂₋₂₈ 145-60.degree., needles, m. 125.degree. (from benzene). I, BzH (V), and Ac₂O (VI) refluxed 3 hrs., cooled, poured into H₂O, and neutralized with aq. NaOH, gave a viscous solid which was taken up in Et₂O, filtered, and satd. with dry HCl to give the hydrochloride of III, yellow needles (from hot 10N HCl), m. 226.degree. (decompn.). An aq. soln. of the hydrochloride of III with dil. NaOH gave III, needles, m. 100.degree. (from aq. alc.). No yield figures are given, but the yield is described as excellent. The properties of III agree closely with those of the 2-(2-hydroxy-2-phenylethyl)-8-methoxyquinoline of Troger and Dunker (C.A. 19, 1278.8). Their prepn. of alleged III from I, V, and ZnCl₂ gave the present authors only an amorphous substance (VII) contg. Zn which sintered below 300.degree. but did not melt at 360.degree.. VII was insol. in HCl, HOAc, and all common solvents except cold C₅H₅N and boiling PhNO₂. VII is unchanged by boiling dil. acids or alkalis, and by O₃, H₂O₂, or KMnO₄. III (6.3 g.) in C₅H₅N, cooled in ice-H₂O and shaken while 4% aq. KMnO₄ was added slowly until the color persisted, the MnO₂ filtered

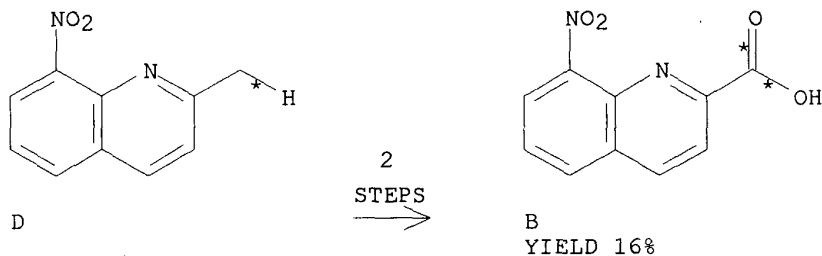
Searched by: Mary Hale 308-4258 CM-1 1E01

off and washed with hot H₂O, the combined filtrates concd., filtered while hot, and acidified, gave crude IV, 3.9 g., m. 150.degree., which was crystd. from benzene contg. alc. to give the monohydrate of IV, golden yellow needles, m. 158-9.degree.. The monohydrate crystd. from hot H₂O gave the dihydrate of IV, m. 121-2.degree.. The dihydrate is stable in moist air but changes to the monohydrate at 100.degree. or on recrystn. from benzene-alc. Freshly sublimed, powdered SeO₂ (6.16 g.) added over 15 min. to 6.36 g. of I in boiling xylene, the Se filtered off, and the solvent evapd. in an air stream, gave yellow crystals and red viscous material. Purification of the yellow crystals gave 0.6 g. of the monohydrate of IV. The red viscous material, extd. with hot benzene, filtered, and the solvent evapd., gave a pale yellow solid and more red material. The yellow solid after fractional crystn. from aq. alc., vacuum sublimation, and a series of recrystns. from H₂O gave 8-methoxyquinoline-2-aldehyde, green needles, m. 102.degree. [2,4-dinitrophenylhydrazones, orange plates from 95% alc., m. 260.degree. (decompn.)]. The monohydrate of IV (1.3 g.), KI, and sirupy H₃PO₄, refluxed at 215-25.degree. until the red color in the condenser disappeared, cooled, and poured into H₂O, gave 1.35 g. of crude II; purification by solution in base, acidification, and recrystn. from aq. dioxane gave yellow crystals, m. 211.degree.. II is insol. in light petroleum, benzene, xylene, and CHCl₃, sol. in hot alc., dioxane, amyl alc., and glacial HOAc, and readily sol. in Me₂CO, dil. alkali, and dil. mineral acids. 8-Hydroxyquinoline (5.2 g.) heated 3 hrs. at 160.degree. with V and VI, cooled, and the resulting oil poured into vigorously stirred H₂O, gave a yellow solid. The mixt. was made alk. with 5% aq. NaOH and the ppt. collected and recrystd. successively from aq. alc., aq. dioxane, and petr. ether (b. 60-80.degree.) to give 4.3 g. 8-acetoxy-2-styrylquinoline (VIII), pale brown needles, m. 119-20.degree., insol. in 2N NaOH. VIII (5.5 g.) refluxed 2 hrs. with 5% aq. NaOH, and the mixt. neutralized with 5N HCl gave 3.2 g. 8-hydroxy-2-styrylquinoline, m. 102-3.degree., which could be oxidized with cold KMnO₄ to II, but in variable yield.

L3 ANSWER 21 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(3) OF 3 COMPOSED OF RX(2), RX(1)

RX(3) D ==> B



RX(2) RCT D 881-07-2
RGT E 7726-95-6 Br₂, F 127-09-3 AcONa
PRO A 73257-75-7
SOL 64-19-7 AcOH
NTE Classification: Bromination; # Conditions: Br₂ AcOH NaOAc; 15mn
Rf

RX(1) RCT A 73257-75-7

Searched by: Mary Hale 308-4258 CM-1 1E01

RGT C 7664-93-9 H2SO4

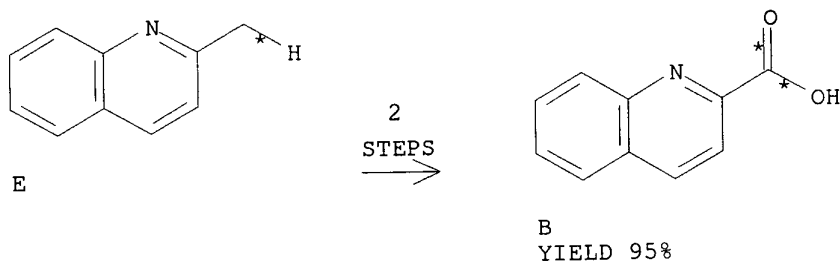
PRO B 15733-85-4

NTE Classification: Hydrolysis; # Conditions: H2SO4 24h Rf

- 49:46267 Metallic ions and biological activity. XXV. Several derivatives of 8-aminoquinaldinic acid. Roth, R.; Erlenmeyer, H. (Univ. Basel, Switz.). *Helv. Chim. Acta*, 37, 1064-8 (German) 1954.
- AB 2-H2NC6H4NO2 (46 g.) was mixed with 70 ml. concd. aq. HCl, cooled to 10.degree., 50 ml. 38% paraldehyde added with stirring, the mixt. kept 1-2 hrs. at 30-5.degree., heated 5 hrs. under reflux, the brown mixt. added to 750 ml. cold H2O, filtered to remove resinous material, the filtrate made alk. with concd. NaOH soln., the brown ppt. extd. with C6H6, the C6H6 evapd., the residue dissolved in MeOH, decolorized with bone C, crystd. and recrystd. from EtOH to give 10-15 g. 8-nitroquinaldine (I), m. 129-31.degree.. I (6 g.) in MeOH was hydrogenated at atm. pressure in presence of Raney Ni, filtered, decolorized with bone C, and the MeOH evapd. to give an oil which was recrystd. from petr. ether as 3.5 g. 8-aminoquinaldine (II), m. 57-8.degree.. II, treated 0.5 hr. with excess of Ac2O, poured into cold H2O, neutralized with Na2CO3, the oil taken up in Et2O, the Et2O evapd., and residue recrystd. from petr. ether, gave N-acetyl-8-aminoquinaldine (III), m. 77-8.degree.. III (11.6 g.), 7 g. BzH, and 4 g. Ac2O were heated 24 hrs. at 150.degree., cooled, poured in 40 ml. 10% NaOH, boiled 0.5 hr., acidified with concd. aq. HCl, filtered to remove resinous material, the ppt. sepd. from the cooled filtrate suspended in dil. NaOH, extd. with Et2O, the Et2O evapd., the residue distd. at 110.degree. (0.06 mm.), and the distillate recrystd. from MeOH-H2O, gave 0.1 g. 2-styryl-8-aminoquinoline (IV), m. 129-30.degree.. To 2 g. IV, suspended in 100 ml. H2O, was slowly added 5.0 g. KMnO4 in 100 ml. H2O with cooling, the mixt. stirred 1 hr. at room temp., filtered, the filtrate evapd. to small vol., acidified with HNO3 to pH 1-2, BzOH extd. with Et2O, the aq. soln. brought to pH 5-6 with NH3, satd. Cu(OAc)2 soln. added (avoiding excess), the Cu salt suspended in hot H2O, decompd. with H2S, the residue extd. with hot petr. ether, and the crystals which sepd. on cooling recrystd. from H2O, to give 8-aminoquinaldinic acid (V), m. 161-3.degree.. IV (0.8 g.) was refluxed 15 min. with 0.4 g. Ac2O, cooled, poured into H2O, and neutralized with Na2CO3, to obtain N-acetyl-2-styryl-8-aminoquinoline, m. 101-2.degree. (from EtOH-petr. ether). I (7 g.) was dissolved in 150 ml. glacial AcOH, the hot soln. satd. with anhyd. AcONa, 7 ml. Br in 50 ml. AcOH added, heated 15 min. during which NaBr pptd., filtered, the filtrate added to H2O, and the ppt. recrystd. from EtOH-petr. ether to give 16 g. 2-tribromomethyl-8-nitroquinoline (VI), m. 130-1.degree.. VI (15-g.), boiled 24 hrs. with 500 ml. 20% H2SO4, after cooling, filtering, and neutralizing to pH 3, yielded 1.2 g. 8-nitroquinaldinic acid (VII), m. 181-2.degree.. VII (1.6 g.), esterified with CH2N2 in 50 ml. Et2O, gave 1.2 g. VII Me ester (VIII) m. 125-6.degree. (from MeOH). VIII, treated 6 hrs. with excess of 25% NH4OH, gave VII amide, m. 256-7.degree.. Hydrogenation of 1 g. VII at atm. pressure in 50 ml. MeOH with Raney Ni gave 0.6 g. V, m. 162-4.degree. (from petr. ether and H2O). VIII (2 g.), hydrogenated in 100 ml. MeOH with Raney Ni, yielded 1.4 g. V Me ester (IX), m. 97-8.degree. (from petr. ether). IX, treated 3 hrs. with 25% NH4OH, gave V amide-1/2H2O, m. 153-6.degree. (from EtOH); V amide, m. 174-6.degree.. IX, treated with MeNH2 soln. gave V N-methylamide, m. 149-50.degree. after sublimation in vacuo and recrystn. from MeOH-H2O. IX, treated with N2H4.H2O in MeOH, after prolonged standing at -15.degree. gives long yellow needles of V hydrazide, m. 203-5.degree. (from EtOH). IX (1 g.) in Et2O was added to 0.15 g. LiAlH4 in Et2O, warmed 15 min. on water bath, cooled, acidified with 10% H2SO4 to a clear soln., then made strongly alk. with NaOH, the Et2O layer sepd., the aq. layer twice reextd. with Et2O and combined Et2O exts. evapd. to give 2-hydroxymethyl-8-aminoquinoline, m. 92-4.degree. (from petr. ether).

RX(3) OF 3 COMPOSED OF RX(2), RX(1)

RX(3) E ==> B



RX(2) RCT E 91-63-4
RGT F 7726-95-6 Br₂, G 127-09-3 AcONa
PRO A 613-53-6
SOL 64-19-7 AcOH
NTE Classification: Bromination; # Conditions: Br₂ NaOAc AcOH; 70-75 deg ; 90-95 deg 1h; 20 deg overnight

RX(1) RCT A 613-53-6
RGT C 7664-93-9 H₂SO₄
PRO B 93-10-7
SOL 7732-18-5 Water
NTE Classification: Hydrolysis; # Conditions: H₂SO₄ H₂O; 10h 120 deg

40:37317 Quinoline series. V. Preparation of some .alpha.-dialkylaminomethyl-2-quinolinemethanols. Campbell, Kenneth N.; Helbing, Clarence H.; Kerwin, James F. (Univ. of Notre Dame, IN). J. Am. Chem. Soc., 68, 1840-3 (Unavailable) 1946. CODEN: JACSAT. ISSN: 0002-7863.

AB Quinaldic acid was prepd. in 90-8% yield from .alpha.-tribromoquinaldine and 1:10 H₂SO₄; the Et ester and AcOEt yield 90% of the Na salt (I) which with cold dil. acid yields Et quinaldoylacetate, yellow, m. 63-4.degree.; I (60.7 g.) and 46 ml. concd. H₂SO₄ in 1450 ml. H₂O, heated at 95-105.degree. for 7 hrs., give 76% of 2-acetylquinoline (II), m. 47.5-8.degree.. Hydrogenation of II in aq. or abs. EtOH over Pt oxide at room temp. gives methyl-2-quinolylcarbinol, m. 81-2.degree.; in aq. EtOH contg. a little HCl, the main product is the pinacol, C₂₂H₂₀N₂O₂, m. 142.5-4.degree.. II (26.3 g.) in 60 ml. 40% HBr, treated at 63-7.degree. with 26.4 g. Br in 35 ml. 40% HBr and the mixt. kept at 65.degree. for 1 hr., gives 85% of the HBr salt (III), m. 214-16.degree. (decompn.), of 2-bromoacetylquinoline (IV), m. 81-2.degree.. III (3.31 g.) and 5 g. Et₂NH in 25 ml. ether at 0.degree. (N atm.) for 1.5 hrs., the Et₂NH.HBr removed and the residue in 50 ml. abs. EtOH hydrogenated over Pt oxide at room temp. and 3 atm., give .alpha.-diethylaminomethyl-2-quinolinemethanol (SN 8105), whose dipicrate (1.5 g. yield) m. 125-6.degree.; di-HCl salt, m. 109-10.degree., very hygroscopic; 1,1'-methylenebis(2-hydroxy-3-naphthoate), m. 285-90.degree. (decompn.). IV (5.6 g.) and 7 g. Pr₂NH in 60 ml. C₆H₆ similarly give the .alpha.-dipropylaminomethyl deriv (SN 9795), whose HCl salt m. 110.degree., very hygroscopic; 1,1'-methylenebis[2-hydroxy-3-naphthoate], with 1 mol. H₂O, m. 216.degree. (yield 5.8 g.). IV (5 g.) and 6 g. (iso-Bu)₂NH give 3.7 g. of the 1,1'-methylenebis[2-hydroxy-3-naphthoate], with 2 mols. H₂O, m. 250.degree., of the .alpha.-diisobutylaminomethyl deriv. (SN 7998); the

.alpha.-butylethylaminomethyl analog (SN 7994), with 2 mols. H₂O, m. 220-3.degree.. 6-Methoxyquinaldine (25 g.), 20 g. BzH, and 1.5 g. ZnCl₂, heated at 150-60.degree. for 4 hrs., give 80-95% (crude) of 6-methoxy-2-styrylquinoline, pale yellow, m. 147-8.degree.; oxidation with KMnO₄ in 50% C₅H₅N gives 85-95% of 6-methoxyquinaldic acid, m. 182.degree. (HCl salt, m. 217-18.degree.); Et ester, m. 127.5-8.degree.; Et 6-methoxyquinaldoylacetate, m. 64-6.degree., 80%; 20% H₂SO₄ at 90.degree. for 1 hr. gives 98% of 6-methoxy-2-acetylquinoline, m. 97.5-8.5.degree. (HBr salt, m. 189.degree.; semicarbazone, m. 237-8.degree.); Br in 24% HBr gives a poor yield of 6-methoxy-2-bromoacetylquinoline, m. 122.degree.; Br in CHCl₃ gives a dibromide, m. 143-6.degree.; HBr salt, m. 193.degree.; the free base did not react normally with Et₂NH. m-ClC₆H₄NH₂.HCl and MeC(OMe)2CH₂CH₂OMe give about 30% of 7-chloroquinaldine, m. 74.5-6.degree.; 7-chloro-2-styrylquinoline, yellow, m. 125-7.degree., 73%; KMnO₄ in Me₂CO at 0-10.degree. gives 87% of 7-chloroquinaldic acid (V), m. 213.degree. (decompn.); Et ester, b₁ 155-7.degree., m. 72-4.degree. (75-80%); 7-chloro-2-acetylquinoline, m. 87-8.5.degree., 27% (HBr salt, m. 324.degree.). V (15 g.) and 75 ml. SOCl₂, refluxed 2 hrs. and the acid chloride reacted with CH₂N₂, give 65% of 7-chloro-2-bromoacetylquinoline, light yellow, m. 117-18.degree.; HBr salt, m. 215.degree.; although the salt appears to react with Et₂NH, an amino alc. could not be obtained. 7-Chloro-2-chloroacetylquinoline, m. 127-9.degree., 45%; reduction with (iso-PrO)₃Al in iso-PrOH gives a yellow compd., m. 134-5.degree., probably methyl(7-chloro-2-quinolyl)carbinol.

=> fil caplus;s l3
COST IN U.S. DOLLARS

crossover from CASREACT

SINCE FILE	TOTAL
ENTRY	SESSION
93.64	199.52

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-13.64	-14.26

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22 L3

duplicate

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=> s 14 and (cunningham? or alternar? or absid? or aspergill? or giomerell? or penicill?)

1646 CUNNINGHAM?
5433 ALTERNAR?
739 ABSID?
42177 ASPERGILL?
0 GIOMERELL?
62405 PENICILL?
L5 1 L4 AND (CUNNINGHAM? OR ALTERNAR? OR ABSID? OR ASPERGILL? OR
GIOMERELL? OR PENICILL?)

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L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
2002:294175 Document No. **136:308633** Microbial conversion of
bicyclic heteroaromatic compounds. Cawley, James J.; Wong, John W. (USA).
U.S. Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp. (English).
CODEN: USXXCO. APPLICATION: US 2001-924292 20010808. PRIORITY: US
2000-PV224089 20000809.
AB The present invention relates to processes for the microbial oxidn. of
bicyclic heteroarom. compds. which comprise contacting these compds. with
a microorganism, or a suitable mutant thereof, and incubating the
resulting mixt. under conditions sufficient to yield an amt. of their
resp. carboxylic acids. The present processes optionally further comprise
the isolation and purifn. of the product carboxylic acids. Thus,
Pseudomonas putida ATCC 33015 converted 3-methylquinoline to
3-quinolinecarboxylic acid with a yield of 9%.

=> s 14 and mycotox?

8206 MYCOTOX?
L6 0 L4 AND MYCOTOX?

=> s 14 and (organic solvent or extract? or chromatograp? or purif?)

290272 ORGANIC
3347 ORGANICS
292458 ORGANIC
(ORGANIC OR ORGANICS)
798130 ORG
12291 ORGS
802427 ORG
(ORG OR ORGS)
893295 ORGANIC
(ORGANIC OR ORG)
570522 SOLVENT
282505 SOLVENTS
720583 SOLVENT
(SOLVENT OR SOLVENTS)
121699 ORGANIC SOLVENT
(ORGANIC(W) SOLVENT)
236068 EXTRACT?
264617 EXT
198041 EXTS
415531 EXT
(EXT OR EXTS)
319696 EXTD
6 EXTDS
319698 EXTD
(EXTD OR EXTDS)

43875 EXTG
 1 EXTGS
 43876 EXTG
 (EXTG OR EXTGS)
 338077 EXTN
 11648 EXTNS
 343051 EXTN
 (EXTN OR EXTNS)
 955174 EXTRACT?
 (EXTRACT? OR EXT OR EXTD OR EXTG OR EXTN)
 369581 CHROMATOGRAP?
 543532 CHROMATOG
 3004 CHROMATOGS
 545708 CHROMATOG
 (CHROMATOG OR CHROMATOGS)
 683592 CHROMATOGRAP?
 (CHROMATOGRAP? OR CHROMATOG)
 689780 PURIF?
 L7 5 L4 AND (ORGANIC SOLVENT OR EXTRACT? OR CHROMATOGRAP? OR PURIF?)

=> d 1-5 cbib abs

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
 2002:294175 Document No. **136:308633** Microbial conversion of
 bicyclic heteroaromatic compounds. Cawley, James J.; Wong, John W. (USA).
 U.S. Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp. (English).
 CODEN: USXXCO. APPLICATION: US 2001-924292 20010808. PRIORITY: US
 2000-PV224089 20000809.

AB The present invention relates to processes for the microbial oxidn. of
 bicyclic heteroarom. compds. which comprise contacting these compds. with
 a microorganism, or a suitable mutant thereof, and incubating the
 resulting mixt. under conditions sufficient to yield an amt. of their
 resp. carboxylic acids. The present processes optionally further comprise
 the isolation and **purifn.** of the product carboxylic acids.
 Thus, *Pseudomonas putida* ATCC 33015 converted 3-methylquinoline to
 3-quinolinecarboxylic acid with a yield of 9%.

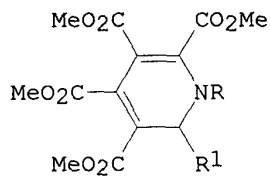
L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
 1997:630782 Document No. **127:248020** Process for preparation of
 carboxylbenzopyridine derivatives by oxidation. Fujibayashi, Ryoichi;
 Yamada, Shigeji (Sumikin Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho
 JP 09249649 A2 19970922 Heisei, 6 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1996-61329 19960318.

AB Characterized is a process for prepn. of the title compds. by oxidn. of
 alkylbenzopyridine using mol. O in the presence of alkali metal hydroxide
 in **org. solvents**. The title compds., useful materials
 for drugs and pesticides, are prepd. in an industrial manner efficiently
 and economically under mild condition. Thus, 2-methylquinoline was
 oxidized by O in the presence of KOH at 150.degree. for 3 h to give
 potassium 2-quinolinecarboxylate with 10.1% conversion yield and 82.5%
 selectivity.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
 1982:615948 Document No. **97:215948** The reactions of aromatic
 Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an
 organic solvent. Murphy, Shane T.; Taylor, Walter C.;
 Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia).
 Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN:
 AJCHAS. ISSN: 0004-9425. OTHER SOURCES: CASREACT 97:215948.

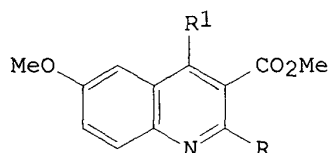
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Searched by: Mary Hale 308-4258 CM-1 1E01



I, R=4-MeOC₆H₄, R¹=Ph

IV, R=Ph, R¹=4-MeOC₆H₄



II, R=CO₂Me, R¹=Ph

III, R=Ph, R¹=CO₂Me

AB The reaction of N-benzylidene-p-anisidine with MeO₂CC.tplbond.CCO₂Me in refluxing xylene-nitrobenzene gave low yields of bis-adduct I and dehydro-adducts II and III. p-Anisylideneaniline under similar conditions gave dihydropyridine IV and an abnormal bis-adduct. Benzylideneaniline gave only an abnormal bis-adduct.

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS

1956:12356 Document No. 50:12356 Original Reference No.

50:2592c-i,2593a 8-Hydroxyquinaldic acid. Irving, H. M.; Pennington, A. R. (Univ. Oxford, UK). J. Chem. Soc. 3782-5 (Unavailable) 1954.

AB 8-Methoxyquinaldine (I) is converted to 8-hydroxyquinaldic acid (II) via 8-methoxy-2-styrylquinoline (III) and 8-methoxyquinaldic acid (IV). Crotonaldehyde added over 15 min. to a hot soln. of o-anisidine and o-nitrophenol in 10N HCl, the soln. heated 2 hrs., cooled, and carefully neutralized with concd. aq. NaOH gave a semisolid product which was filtered off, washed with H₂O, air-dried, and distd. to give 44-9% I, b₂₂₋₂₈ 145-60.degree., needles, m. 125.degree. (from benzene). I, BzH (V), and Ac₂O (VI) refluxed 3 hrs., cooled, poured into H₂O, and neutralized with aq. NaOH, gave a viscous solid which was taken up in Et₂O, filtered, and satd. with dry HCl to give the hydrochloride of III, yellow needles (from hot 10N HCl), m. 226.degree. (decompn.). An aq. soln. of the hydrochloride of III with dil. NaOH gave III, needles, m. 100.degree. (from aq. alc.). No yield figures are given, but the yield is described as excellent. The properties of III agree closely with those of the 2-(2-hydroxy-2-phenylethyl)-8-methoxyquinoline of Troger and Dunker (C.A. 19, 1278.8). Their prepn. of alleged III from I, V, and ZnCl₂ gave the present authors only an amorphous substance (VII) contg. Zn which sintered below 300.degree. but did not melt at 360.degree.. VII was insol. in HCl, HOAc, and all common solvents except cold C₅H₅N and boiling PhNO₂. VII is unchanged by boiling dil. acids or alkalies, and by O₃, H₂O₂, or KMnO₄. III (6.3 g.) in C₅H₅N, cooled in ice-H₂O and shaken while 4% aq. KMnO₄ was added slowly until the color persisted, the MnO₂ filtered off and washed with hot H₂O, the combined filtrates concd., filtered while hot, and acidified, gave crude IV, 3.9 g., m. 150.degree., which was crystd. from benzene contg. alc. to give the monohydrate of IV, golden yellow needles, m. 158-9.degree.. The monohydrate crystd. from hot H₂O gave the dihydrate of IV, m. 121-2.degree.. The dihydrate is stable in moist air but changes to the monohydrate at 100.degree. or on recrystn. from benzene-alc. Freshly sublimed, powdered SeO₂ (6.16 g.) added over 15

min. to 6.36 g. of I in boiling xylene, the Se filtered off, and the solvent evapd. in an air stream, gave yellow crystals and red viscous material. **Purification** of the yellow crystals gave 0.6 g. of the monohydrate of IV. The red viscous material, **extd.** with hot benzene, filtered, and the solvent evapd., gave a pale yellow solid and more red material. The yellow solid after fractional crystn. from aq. alc., vacuum sublimation, and a series of recrystns. from H₂O gave 8-methoxyquinoline-2-aldehyde, green needles, m. 102.degree. [2,4-dinitrophenylhydrazones, orange plates from 95% alc., m. 260.degree. (decompn.)]. The monohydrate of IV (1.3 g.), KI, and sirupy H₃PO₄, refluxed at 215-25.degree. until the red color in the condenser disappeared, cooled, and poured into H₂O, gave 1.35 g. of crude II; **purification** by solution in base, acidification, and recrystn. from aq. dioxane gave yellow crystals, m. 211.degree.. II is insol. in light petroleum, benzene, xylene, and CHCl₃, sol. in hot alc., dioxane, amyl alc., and glacial HOAc, and readily sol. in Me₂CO, dil. alkali, and dil. mineral acids. 8-Hydroxyquinoline (5.2 g.) heated 3 hrs. at 160.degree. with V and VI, cooled, and the resulting oil poured into vigorously stirred H₂O, gave a yellow solid. The mixt. was made alk. with 5% aq. NaOH and the ppt. collected and recrystd. successively from aq. alc., aq. dioxane, and petr. ether (b. 60-80.degree.) to give 4.3 g. 8-acetoxy-2-styrylquinoline (VIII), pale brown needles, m. 119-20.degree., insol. in 2N NaOH. VIII (5.5 g.) refluxed 2 hrs. with 5% aq. NaOH, and the mixt. neutralized with 5N HCl gave 3.2 g. 8-hydroxy-2-styrylquinoline, m. 102-3.degree., which could be oxidized with cold KMnO₄ to II, but in variable yield.

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

1955:46267 Document No. **49:46267** Original Reference No.

49:8954d-i,8955a-c Metallic ions and biological activity. XXV. Several derivatives of 8-aminoquinolinaldic acid. Roth, R.; Erlenmeyer, H. (Univ. Basel, Switz.). *Helv. Chim. Acta*, 37, 1064-8 (German) 1954.

AB 2-H₂NC₆H₄NO₂ (46 g.) was mixed with 70 ml. concd. aq. HCl, cooled to 10.degree., 50 ml. 38% paraldehyde added with stirring, the mixt. kept 1-2 hrs. at 30-5.degree., heated 5 hrs. under reflux, the brown mixt. added to 750 ml. cold H₂O, filtered to remove resinous material, the filtrate made alk. with concd. NaOH soln., the brown ppt. **extd.** with C₆H₆, the C₆H₆ evapd., the residue dissolved in MeOH, decolorized with bone C, crystd. and recrystd. from EtOH to give 10-15 g. 8-nitroquinolinaldine (I), m. 129-31.degree.. I (6 g.) in MeOH was hydrogenated at atm. pressure in presence of Raney Ni, filtered, decolorized with bone C, and the MeOH evapd. to give an oil which was recrystd. from petr. ether as 3.5 g. 8-aminoquinolinaldine (II), m. 57-8.degree.. II, treated 0.5 hr. with excess of Ac₂O, poured into cold H₂O, neutralized with Na₂CO₃, the oil taken up in Et₂O, the Et₂O evapd., and residue recrystd. from petr. ether, gave N-acetyl-8-aminoquinolinaldine (III), m. 77-8.degree.. III (11.6 g.), 7 g. BzH, and 4 g. Ac₂O were heated 24 hrs. at 150.degree., cooled, poured in 40 ml. 10% NaOH, boiled 0.5 hr., acidified with concd. aq. HCl, filtered to remove resinous material, the ppt. sepd. from the cooled filtrate suspended in dil. NaOH, **extd.** with Et₂O, the Et₂O evapd., the residue distd. at 110.degree. (0.06 mm.), and the distillate recrystd. from MeOH-H₂O, gave 0.1 g. 2-styryl-8-aminoquinoline (IV), m. 129-30.degree.. To 2 g. IV, suspended in 100 ml. H₂O, was slowly added 5.0 g. KMnO₄ in 100 ml. H₂O with cooling, the mixt. stirred 1 hr. at room temp., filtered, the filtrate evapd. to small vol., acidified with HNO₃ to pH 1-2, BzOH **extd.** with Et₂O, the aq. soln. brought to pH 5-6 with NH₃, satd. Cu(OAc)₂ soln. added (avoiding excess), the Cu salt suspended in hot H₂O, decompd. with H₂S, the residue **extd.** with hot petr. ether, and the crystals which sepd. on cooling recrystd. from H₂O, to give 8-aminoquinolinaldic acid (V), m. 161-3.degree.. IV (0.8 g.)

was refluxed 15 min. with 0.4 g. Ac₂O, cooled, poured into H₂O, and neutralized with Na₂CO₃, to obtain N-acetyl-2-styryl-8-aminoquinoline, m. 101-2.degree. (from EtOH-petr. ether). I (7 g.) was dissolved in 150 ml. glacial AcOH, the hot soln. satd. with anhyd. AcONa, 7 ml. Br in 50 ml. AcOH added, heated 15 min. during which NaBr pptd., filtered, the filtrate added to H₂O, and the ppt. recrystd. from EtOH-petr. ether to give 16 g. 2-tribromomethyl-8-nitroquinoline (VI), m. 130-1.degree.. VI (15-g.), boiled 24 hrs. with 500 ml. 20% H₂SO₄, after cooling, filtering, and neutralizing to pH 3, yielded 1.2 g. 8-nitroquinaldinic acid (VII), m. 181-2.degree.. VII (1.6 g.), esterified with CH₂N₂ in 50 ml. Et₂O, gave 1.2 g. VII Me ester (VIII) m. 125-6.degree. (from MeOH). VIII, treated 6 hrs. with excess of 25% NH₄OH, gave VII amide, m. 256-7.degree.. Hydrogenation of 1 g. VII at atm. pressure in 50 ml. MeOH with Raney Ni gave 0.6 g. V, m. 162-4.degree. (from petr. ether and H₂O). VIII (2 g.), hydrogenated in 100 ml. MeOH with Raney Ni, yielded 1.4 g. V Me ester (IX), m. 97-8.degree. (from petr. ether). IX, treated 3 hrs. with 25% NH₄OH, gave V amide-1/2H₂O, m. 153-6.degree. (from EtOH); V amide, m. 174-6.degree.. IX, treated with MeNH₂ soln. gave V N-methylamide, m. 149-50.degree. after sublimation in vacuo and recrystn. from MeOH-H₂O. IX, treated with N₂H₄.H₂O in MeOH, after prolonged standing at -15.degree. gives long yellow needles of V hydrazide, m. 203-5.degree. (from EtOH). IX (1 g.) in Et₂O was added to 0.15 g. LiAlH₄ in Et₂O, warmed 15 min. on water bath, cooled, acidified with 10% H₂SO₄ to a clear soln., then made strongly alk. with NaOH, the Et₂O layer sepd., the aq. layer twice reextd. with Et₂O and combined Et₂O exts. evapd. to give 2-hydroxymethyl-8-aminoquinoline, m. 92-4.degree. (from petr. ether).

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

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ENTRY	SESSION
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STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2
 DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

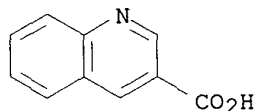
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 /BI OR 93-10-7/BI OR 95-20-5/BI)

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L8 ANSWER 1 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN 195719-66-5 REGISTRY
 CN 3-Quinolinecarboxylic acid, potassium salt (9CI) (CA INDEX NAME)
 MF C10 H7 N O2 . K
 SR CA
 LC STN Files: CA, CAPLUS
 CRN (6480-68-8)



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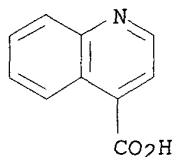
1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:248020 Process for preparation of carboxylbenzopyridine
 derivatives by oxidation. Fujibayashi, Ryoichi; Yamada, Shigeji (Sumikin

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Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09249649 A2 19970922
Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-61329
19960318.

L8 ANSWER 2 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 195719-65-4 REGISTRY
CN 4-Quinolinecarboxylic acid, potassium salt (9CI) (CA INDEX NAME)
MF C10 H7 N O2 . K
SR CA
LC STN Files: CA, CAPLUS
CRN (486-74-8)

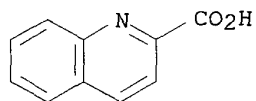


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1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:248020 Process for preparation of carboxylbenzopyridine derivatives by oxidation. Fujibayashi, Ryoichi; Yamada, Shigeji (Sumikin Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09249649 A2 19970922 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-61329 19960318.

L8 ANSWER 3 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 84356-48-9 REGISTRY
CN 2-Quinolinecarboxylic acid, potassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Potassium quinaldinate
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LC STN Files: CA, CAPLUS, CASREACT, GMELIN*, TOXCENTER, USPATFULL
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CRN (93-10-7)



● K

9 REFERENCES IN FILE CA (1962 TO DATE)
9 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 132:160333 Alkali metal complexes: mixed ligand complexes of alkali metal salts of some organic acids with o-hydroxyacetophenone

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hydrazone. Mahmood, Shahnawaz; Sinha, P. C. (Department of Chemistry, B.N. College, Patna, 800 004, India). Asian Journal of Chemistry, 12(1), 89-92 (English) 2000. CODEN: AJCHEW. ISSN: 0970-7077. Publisher: Asian Journal of Chemistry.

REFERENCE 2: 127:248020 Process for preparation of carboxylbenzopyridine derivatives by oxidation. Fujibayashi, Ryoichi; Yamada, Shigeji (Sumikin Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09249649 A2 19970922 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-61329 19960318.

REFERENCE 3: 121:147576 Alkali metal complexes: mixed ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxide with 1,10-phenanthroline and 2,2'-bipyridyl. Prakash, D.; Prasad, S.S.; Chandra, R.; Gupta, O. P. (Chem. Dep., Patna Univ., Patna, India). Acta Ciencia Indica, Chemistry, 18(4), 349-52 (English) 1992. CODEN: ACICDV. ISSN: 0253-7338.

REFERENCE 4: 121:25402 Alkali metal complexes: mixed-ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxides with ethylenediamine and propylenediamine. Prakash, D.; Prasad, S. S.; Gupta, O. P. (Chem. Dep., Patna Univ., Patna, 800 005, India). Journal of the Indian Chemical Society, 70(2), 147-8 (English) 1993. CODEN: JICSAH. ISSN: 0019-4522.

REFERENCE 5: 120:288452 Alkali metal complexes: mixed-ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxides with 1, 10-phenanthroline mono-N-oxide. Prakash, D.; Prasad, S.S.; Chandra, R.; Gupta, O.P. (Chem. Dep., Patna Univ., Patna, 800 005, India). Asian Journal of Chemistry, 5(4), 916-919 (English) 1993. CODEN: AJCHEW. ISSN: 0970-7077.

REFERENCE 6: 111:23643 Anionic tetracarbonyl 2-carboxypyridinato or 2-carboxyquinolinato tungsten(0). Reactions with mercury(II) derivatives. Campo, J. A.; Cano, M.; Perpignan, M. F.; Sanchez-Pelaez, A. E. (Fac. Cienc. Quim., Univ. Complutense, Madrid, 28040, Spain). Journal of Organometallic Chemistry, 345(3), 299-311 (English) 1988. CODEN: JORCAI. ISSN: 0022-328X.

REFERENCE 7: 106:166070 Alkali generating process. Hirai, Hiroyuki; Yabuki, Yoshiharu; Sato, Kozo (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 210659 A2 19870204, 65 pp. DESIGNATED STATES: R: DE, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1986-110567 19860730. PRIORITY: JP 1985-169585 19850731; JP 1985-229720 19851015.

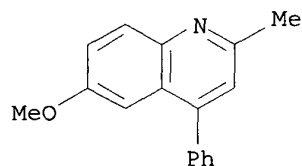
REFERENCE 8: 100:220569 Alkali metal complexes: complexes of alkali metals with quinaldinic acid. Prakash, Dharm; Singh, Shankar Prasad (Dep. Chem., Patna Univ., Patna, 800005, India). Polyhedron, 3(2), 243-6 (English) 1984. CODEN: PLYHDE. ISSN: 0277-5387.

REFERENCE 9: 98:72621 Preparation of 14-substituted derivatives of carminomycin and rubomycin. Olsuf'eva, E. N.; Povarov, L. S.; Salimova, E. I.; Potapova, N. P. (Inst. New Antibiot., Moscow, USSR). Antibiotiki (Moscow), 27(10), 732-7 (Russian) 1982. CODEN: ANTBAL. ISSN: 0003-5637.

L8 ANSWER 4 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 83640-72-6 REGISTRY
CN Quinoline, 6-methoxy-2-methyl-4-phenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H15 N O

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LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
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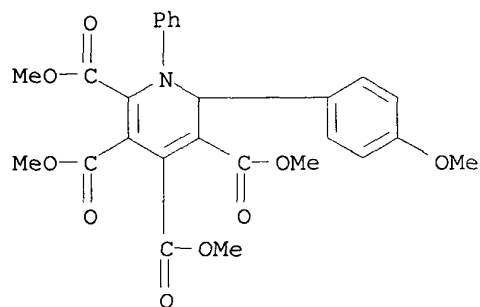


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

L8 ANSWER 5 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN **83640-71-5** REGISTRY
CN 2,3,4,5-Pyridinetetracarboxylic acid, 1,6-dihydro-6-(4-methoxyphenyl)-1-phenyl-, tetramethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
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LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
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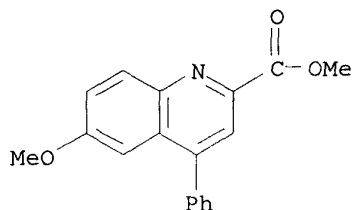
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1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

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L8 ANSWER 6 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN **83640-70-4** REGISTRY
 CN 2-Quinolinecarboxylic acid, 6-methoxy-4-phenyl-, methyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
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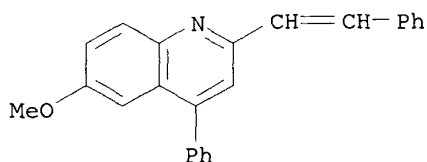


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

L8 ANSWER 7 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN **83640-69-1** REGISTRY
 CN Quinoline, 6-methoxy-4-phenyl-2-(2-phenylethenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
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 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
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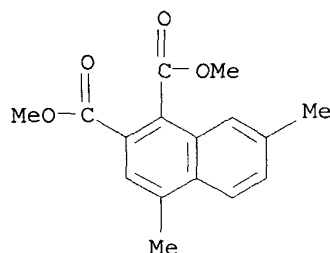
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1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

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L8 ANSWER 8 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN **83640-68-0** REGISTRY
 CN 1,2-Naphthalenedicarboxylic acid, 4,7-dimethyl-, dimethyl ester (6CI, 9CI)
 (CA INDEX NAME)
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 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
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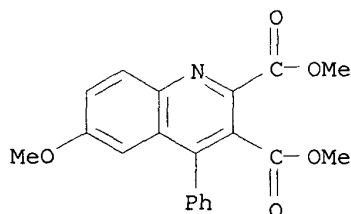
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 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

REFERENCE 2: 51:81332 p-Mentha-1,5,8(9)-triene and its pyrolysis to dehydroocimene. Alder, Kurt; Schumacher, Marianne (Univ. Cologne, Germany). Chem. Ber., 89, 2485-97 (Unavailable) 1956.

L8 ANSWER 9 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN **83640-67-9** REGISTRY
 CN 2,3-Quinolinedicarboxylic acid, 6-methoxy-4-phenyl-, dimethyl ester (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
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 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)



Searched by: Mary Hale 308-4258 CM-1 1E01

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

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ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

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Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

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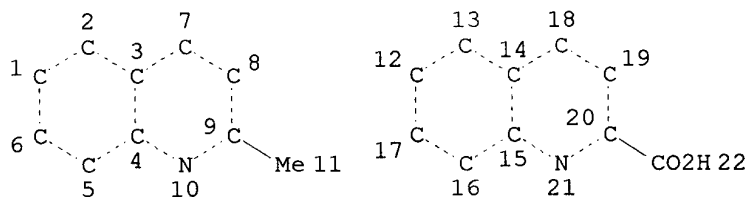
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DEFAULT ECLEVEL IS LIMITED

Searched by: Mary Hale 308-4258 CM-1 1E01

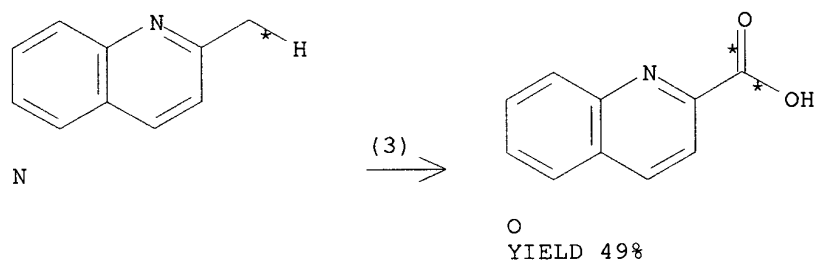
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SEARCH TIME: 00.00.01

L3 ANSWER 1 OF 22 CASREACT COPYRIGHT 2003 ACS

RX(3) OF 10 N ==> O

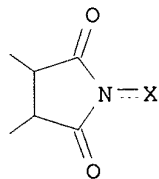


RX(3) RCT N 91-63-4
RGT E 7782-44-7 O2
PRO O 93-10-7
CAT 524-38-9 N-Hydroxyphthalimide, 10102-44-0 NO2, 71-48-7 Co(OAc)2,
638-38-0 Mn(OAc)2
SOL 64-19-7 AcOH

137:154705 Preparation of adamantanol using catalysts containing imides and nitrogen oxides. Ishii, Yasutaka; Nakano, Tatsuya; Tatsumi, Atsuo (Daicel Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002226404 A2 20020814, 18 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-70781 20010313. PRIORITY: JP 2000-361973 20001128.

GI

Q =



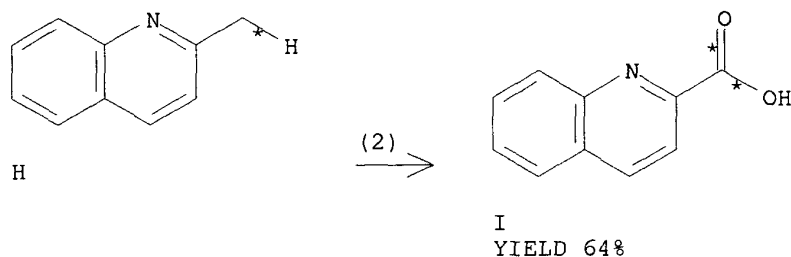
AB O-contg. org. compds. are prepd. by reaction of radical-producing compds. with O-contg. reactants (excluding nitrogen oxides) in the presence of

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imides having skeletons Q (X = O, OR; R = H, OH-protecting group) and catalytic amt. of nitrogen oxides. Adamantane was reacted in the presence of N-hydroxyphthalimide, vanadium acetylacetonate, and NO₂ in AcOH under 0.1 MPa O at 55.degree. for 6 h to give 1-adamantanol 35, 1,3-adamantanediol 20, 1,3,5-adamantanetriol 2, and adamantanone 6%.

L3 ANSWER 2 OF 22 CASREACT COPYRIGHT 2003 ACS

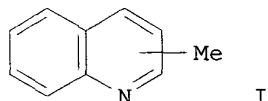
RX(2) OF 5 H ==> I



RX(2) RCT H 91-63-4
RGT C 10102-44-0 NO₂
PRO I 93-10-7
CAT 524-38-9 N-Hydroxyphthalimide
SOL 64-19-7 AcOH
NTE aerobic oxidn.

137:6075 Remarkable effect of nitrogen dioxide for N-hydroxyphthalimide-catalyzed aerobic oxidation of methylquinolines. Sakaguchi, Satoshi; Shibamoto, Akihiro; Ishii, Yasutaka (Department of Applied Chemistry, Faculty of Engineering, Kansai University, Suita, Osaka, 564-8680, Japan). Chemical Communications (Cambridge, United Kingdom) (2), 180-181 (English) 2002. CODEN: CHCOFS. ISSN: 1359-7345. Publisher: Royal Society of Chemistry.

GI



AB Aerobic oxidn. of methylquinolines I was successfully achieved by the use of N-hydroxyphthalimide/Co(OAc)₂/Mn(OAc)₂ as catalyst in the presence of a small amt. of nitrogen dioxide as an initiator.

L3 ANSWER 3 OF 22 CASREACT COPYRIGHT 2003 ACS

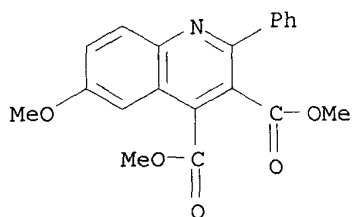
RX(1) OF 6 A ==> B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

L8 ANSWER 10 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN **83640-66-8** REGISTRY
CN 3,4-Quinolinedicarboxylic acid, 6-methoxy-2-phenyl-, dimethyl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C20 H17 N O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

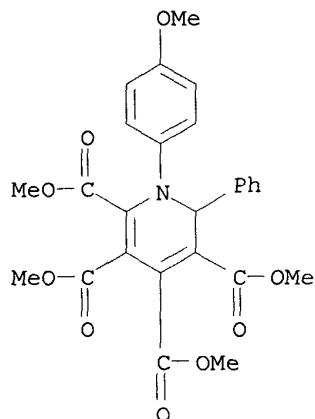
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 113:58883 The reaction of imidoyl radicals with multiple carbon-carbon bonds. Leardini, Rino; Nanni, Daniele; Tundo, Antonio; Zanardi, Giuseppe (Dip. Chim. Org., Univ. Bologna, Bologna, I-40136, Italy). Gazzetta Chimica Italiana, 119(12), 637-41 (English) 1989. CODEN: GCITA9. ISSN: 0016-5603.

REFERENCE 2: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

L8 ANSWER 11 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN **83640-65-7** REGISTRY
CN 2,3,4,5-Pyridinetetracarboxylic acid, 1,6-dihydro-1-(4-methoxyphenyl)-6-phenyl-, tetramethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H25 N O9
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

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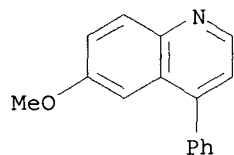


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

L8 ANSWER 12 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN **46870-92-2** REGISTRY
CN Quinoline, 6-methoxy-4-phenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H13 N O
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1962 TO DATE)
5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 129:41107 Radical annulations with nitriles: novel cascade reactions of cyano-substituted alkyl and sulfanyl radicals with isonitriles. Camaggi, Carlo Maurizio; Leardini, Rino; Nanni, Daniele; Zanardi, Giuseppe (Dipartimento di Chimica Organica "A. Mangini", Universita di Bologna, Bologna, I-40136, Italy). Tetrahedron, 54(21), 5587-5598 (English) 1998. CODEN: TETRAB. ISSN: 0040-4020. Publisher:

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Elsevier Science Ltd..

REFERENCE 2: 123:338804 Radical annulations and cyclizations with isonitriles: the fate of the intermediate imidoyl and cyclohexadienyl radicals. Nanni, Daniele; Pareschi, Patrizia; Rizzoli, Corrado; Sgarabotto, Paolo; Tundo, Antonio (Dip. Chim. Org. "A. Mangini", Univ. Bologna, Bologna, I-40136, Italy). Tetrahedron, 51(33), 9045-62 (English) 1995. CODEN: TETRAB. ISSN: 0040-4020. Publisher: Elsevier.

REFERENCE 3: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.

REFERENCE 4: 94:15668 Synthesis and biological properties of some heterocyclic derivatives of guanidine. Shvedov, V. I.; Vasil'eva, V. F.; Korsakova, I. Ya.; Galitsina, V. A.; Medvedev, B. A.; Novitskaya, N. A.; Lapaeva, N. B.; Pershin, G. N.; Mashkovskii, M. D. (Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR). Khimiko-Farmatsevticheskii Zhurnal, 14(8), 38-43 (Russian) 1980. CODEN: KHFZAN. ISSN: 0023-1134.

REFERENCE 5: 87:53052 Cyclization of .beta.-arylamino propiophenones into 4-substituted quinolines. Dienys, G.; Gureviciene, J.; Cekuoliene, L.; Steponavicius, J. (V. Kapsukas State Univ., Vilnius, USSR). Lietuvos TSR Mokslu Akademijos Darbai, Serija B: Chemija, Technika, Fizine Geografija (1), 33-8 (Russian) 1977. CODEN: LMDBAL. ISSN: 0132-2729.

L8 ANSWER 13 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 21873-63-2 REGISTRY

CN Quinoline, 6-methoxy-4-phenyl-, compd. with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Quinoline, 6-methoxy-4-phenyl-, monopicrate (8CI)

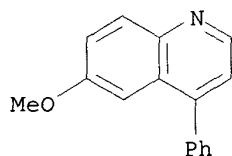
MF C16 H13 N O . C6 H3 N3 O7

LC STN Files: CA, CAPLUS

CM 1

CRN 46870-92-2

CMF C16 H13 N O

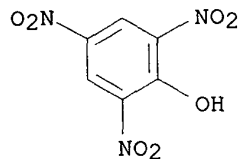


CM 2

CRN 88-89-1

CMF C6 H3 N3 O7

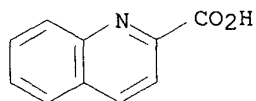
Searched by: Mary Hale 308-4258 CM-1 1E01



2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

- REFERENCE 1: 97:215948 The reactions of aromatic Schiff bases with dimethyl acetylenedicarboxylate. I. Reaction in an organic solvent. Murphy, Shane T.; Taylor, Walter C.; Vadasz, Andrew (Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia). Australian Journal of Chemistry, 35(6), 1215-25 (English) 1982. CODEN: AJCHAS. ISSN: 0004-9425.
- REFERENCE 2: 70:87514 Cyclization of .beta.-arylamino propiophenons to 4-substituted quinolines. Dienys, G.; Cekuliene, L.; Jokubaityte, S.; Buckus, P. (Vil'nyus. Gos. Univ. im. Kapsukasa, Vilnius, USSR). Khim. Geterotsikl. Soedin., Sb. 1: Azotsoderzhashchie Geterotsikly, 260-2. Editor(s): Hillers, S. Izd. "Zinatne": Riga, USSR. (Russian) 1967. CODEN: 2ONNA2.

L8 ANSWER 14 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 16907-79-2 REGISTRY
CN 2-Quinolinecarboxylic acid, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Quinaldic acid, sodium salt (8CI)
OTHER NAMES:
CN Quinaldinic acid sodium salt
CN Sodium quinaldate
CN Sodium quinaldinate
MF C10 H7 N O2 . Na
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, GMELIN*, TOXCENTER
(*File contains numerically searchable property data)
CRN (93-10-7)



● Na

17 REFERENCES IN FILE CA (1962 TO DATE)
17 REFERENCES IN FILE CAPLUS (1962 TO DATE)

- REFERENCE 1: 132:160333 Alkali metal complexes: mixed ligand complexes of alkali metal salts of some organic acids with o-hydroxyacetophenone hydrazone. Mahmood, Shahnawaz; Sinha, P. C. (Department of Chemistry, B.N. College, Patna, 800 004, India). Asian Journal of Chemistry, 12(1), 89-92 (English) 2000. CODEN: AJCHEW. ISSN: 0970-7077. Publisher: Asian Journal of Chemistry.

Searched by: Mary Hale 308-4258 CM-1 1E01

- REFERENCE 2: 127:248020 Process for preparation of carboxylbenzopyridine derivatives by oxidation. Fujibayashi, Ryoichi; Yamada, Shigeji (Sumikin Kako Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09249649 A2 19970922 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-61329 19960318.
- REFERENCE 3: 121:179767 Syntheses of heterocyclic carboxylic derivatives of bis(.eta.5-cyclopentadieny)zirconium (IV). Chen, Hongming; Ying, Wei; Zhou, Yaokun (Coll. Pharmacol., Beijing Coll. Med., Beijing, 100083, Peop. Rep. China). Huaxue Tongbao (2), 32-4 (Chinese) 1994. CODEN: HHTPAU. ISSN: 0441-3776.
- REFERENCE 4: 121:147576 Alkali metal complexes: mixed ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxide with 1,10-phenanthroline and 2,2'-bipyridyl. Prakash, D.; Prasad, S.S.; Chandra, R.; Gupta, O. P. (Chem. Dep., Patna Univ., Patna, India). Acta Ciencia Indica, Chemistry, 18(4), 349-52 (English) 1992. CODEN: ACICDV. ISSN: 0253-7338.
- REFERENCE 5: 121:25402 Alkali metal complexes: mixed-ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxides with ethylenediamine and propylenediamine. Prakash, D.; Prasad, S. S.; Gupta, O. P. (Chem. Dep., Patna Univ., Patna, 800 005, India). Journal of the Indian Chemical Society, 70(2), 147-8 (English) 1993. CODEN: JICSAH. ISSN: 0019-4522.
- REFERENCE 6: 120:288452 Alkali metal complexes: mixed-ligand complexes of alkali metal salts of picolinic acid, quinaldinic acid and their N-oxides with 1, 10-phenanthroline mono-N-oxide. Prakash, D.; Prasad, S.S.; Chandra, R.; Gupta, O.P. (Chem. Dep., Patna Univ., Patna, 800 005, India). Asian Journal of Chemistry, 5(4), 916-919 (English) 1993. CODEN: AJCHEW. ISSN: 0970-7077.
- REFERENCE 7: 113:142206 Positive electrostatic triboelectric charge-providing member. Minamitani, Toshiki; Yamaguchi, Kimitoshi (Ricoh Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01259387 A2 19891017 Heisei, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-88585 19880411.
- REFERENCE 8: 112:139257 Organolanthanoids. XV. The preparation of carboxylatobis(cyclopentadienyl)ytterbium(III) complexes by oxidation of bis(cyclopentadienyl)ytterbium(II). Deacon, Glen B.; Wilkinson, Dallas L. (Chem. Dep., Monash Univ., Clayton, 3168, Australia). Australian Journal of Chemistry, 42(6), 845-54 (English) 1989. CODEN: AJCHAS. ISSN: 0004-9425.
- REFERENCE 9: 100:220569 Alkali metal complexes: complexes of alkali metals with quinaldinic acid. Prakash, Dharm; Singh, Shankar Prasad (Dep. Chem., Patna Univ., Patna, 800005, India). Polyhedron, 3(2), 243-6 (English) 1984. CODEN: PLYHDE. ISSN: 0277-5387.
- REFERENCE 10: 98:72621 Preparation of 14-substituted derivatives of carminomycin and rubomycin. Olsuf'eva, E. N.; Povarov, L. S.; Salimova, E. I.; Potapova, N. P. (Inst. New Antibiot., Moscow, USSR). Antibiotiki (Moscow), 27(10), 732-7 (Russian) 1982. CODEN: ANTBAL. ISSN: 0003-5637.

L8 ANSWER 15 OF 38 REGISTRY COPYRIGHT 2003 ACS

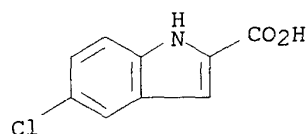
RN 10517-21-2 REGISTRY

CN 1H-Indole-2-carboxylic acid, 5-chloro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

Searched by: Mary Hale 308-4258 CM-1 1E01

CN Indole-2-carboxylic acid, 5-chloro- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 5-Chloro-1H-indole-2-carboxylic acid
 CN 5-Chloroindole-2-carboxylic acid
 FS 3D CONCORD
 MF C9 H6 Cl N O2
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT,
 CHEMCATS, CHEMLIST, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE,
 RTECS*, SYNTHLINE, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

80 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 80 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:205076 Preparation of diamines as factor Xa inhibitors.
 Ohta, Toshiharu; Komoriya, Satoshi; Yoshino, Toshiharu; Uoto, Kouichi;
 Nakamoto, Yumi; Naito, Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu;
 Kanno, Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji; Nagamochi,
 Masatoshi; Kobayashi, Syozo; Ono, Makoto (Daiichi Pharmaceutical Co.,
 Ltd., Japan). PCT Int. Appl. WO 2003016302 A1 20030227, 847 pp.
 DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE,
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF,
 BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU,
 MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2.
 APPLICATION: WO 2002-JP8119 20020808. PRIORITY: JP 2001-243046 20010809;
 JP 2001-311808 20011009; JP 2001-398708 20011228; WO 2002-JP2683 20020320;
 WO 2002-JP6141 20020620.

REFERENCE 2: 138:170073 Preparation of N-[2-[3-[(4-aminomethyl)phenyl]propylamino]ethyl]amides as human .beta.-tryptase inhibitors for treatment of respiratory diseases, allergic diseases, inflammatory intestinal diseases, hyperproliferative skin diseases, vascular edema, and rheumatoid arthritis. Kato, Yutaka; Miyazaki, Yutaka; Shimada, Hiroyasu; Manabe, Tadashi; Shiromizu, Ikuya; Okamoto, Atsushi (Mochida Pharmaceutical Co., Ltd., Japan). PCT Int. Appl. WO 2003011812 A1 20030213, 189 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT,

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TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR.
(Japanese). CODEN: PIXXD2. APPLICATION: WO 2002-JP7843 20020801.
PRIORITY: JP 2001-233818 20010801.

REFERENCE 3: 138:153555 Preparation of piperidinyl piperazine and piperidine derivatives as thrombolytic agents. Wiley, Michael Robert; Liebeschuetz, John Walter; Sall, Daniel Jon (Eli Lilly and Company, USA). PCT Int. Appl. WO 2003010160 A2 20030206, 63 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US21292 20020724. PRIORITY: US 2001-PV307634 20010726; US 2001-PV311462 20010813; US 2001-PV339317 20011212.

REFERENCE 4: 138:89801 Preparation of heterocyclic moiety-containing diamine derivatives as FXa inhibitors. Ohta, Toshiharu; Komoriya, Satoshi; Yoshino, Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito, Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno, Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji; Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto (Daiichi Pharmaceutical Co., Ltd., Japan). PCT Int. Appl. WO 2003000680 A1 20030103, 811 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2. APPLICATION: WO 2002-JP6141 20020620. PRIORITY: JP 2001-187105 20010620; JP 2001-243046 20010809; JP 2001-311808 20011009; JP 2001-398708 20011228; WO 2002-JP2683 20020320.

REFERENCE 5: 137:232678 Preparation of piperazinylcarbonylindoles as histamine H4 antagonists.. Carruthers, Nicholas I.; Chai, Wenying; Dvorak, Curt A.; Edwards, James P.; Grice, Cheryl A.; Jablonowski, Jill A.; Karlsson, Lars; Khatuya, Haripada; Kreisberg, Jennifer D.; Kwok, Annette K.; Lovenberg, Timothy W.; Ly, Kiev S.; Pio, Barbara; Shah, Chandravadan R.; Sun, Siqun; Thurmond, Robin L.; Wei, Jianmei; Xiao, Wei (Ortho-McNeil Pharmaceutical, Inc., USA). PCT Int. Appl. WO 2002072548 A2 20020919, 106 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US7168 20020308. PRIORITY: US 2001-PV274900 20010309; US 2001-PV343259 20011221.

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SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-GB2553
20010612. PRIORITY: WO 2000-GB2302 20000613; GB 2000-30304 20001213.

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RN **6624-49-3** REGISTRY

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OTHER NAMES:

CN 3-Carboxyisoquinoline

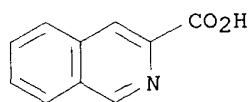
CN 3-Isoquinaldic acid

FS 3D CONCORD

MF C10 H7 N O2

CI COM

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CSCHEM, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

56 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

57 REFERENCES IN FILE CAPLUS (1962 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US17954 20020606. PRIORITY: US 2001-PV298206 20010613; US 2001-PV333830 20011127.

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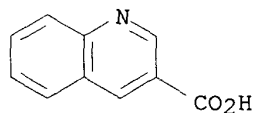
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 RN 6480-68-8 REGISTRY
 CN 3-Quinolinecarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-Carboxyquinoline
 FS 3D CONCORD
 MF C10 H7 N O2
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, HODOC*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

200 REFERENCES IN FILE CA (1962 TO DATE)
 24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 200 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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Thomas; Hulme, Christopher (AMGEN, Department of Small Molecule Drug Discovery, Thousand Oaks, CA, 91320, USA). Tetrahedron Letters, 43(38), 6833-6835 (English) 2002. CODEN: TELEAY. ISSN: 0040-4039. Publisher: Elsevier Science Ltd..

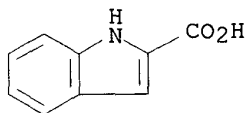
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REFERENCE 10: 137:155147 Preparation 6-O-carbamoyl ketolide derivatives of erythromycin useful as antibacterials. Henninger, Todd C.; Xu, Xiaodong (USA). U.S. Pat. Appl. Publ. US 2002115620 A1 20020822, 62 pp., Cont.-in-part of Ser. No. US 2001-773,788. (English). CODEN: USXXCO. APPLICATION: US 2001-11937 20011205. PRIORITY: US 2000-PV251547 20001206; US 2001-773788 20010201.

L8 ANSWER 18 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN 1477-50-5 REGISTRY
 CN 1H-Indole-2-carboxylic acid (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Indole-2-carboxylic acid (7CI, 8CI)
 OTHER NAMES:
 CN 2-Carboxyindole
 FS 3D CONCORD
 MF C9 H7 N O2
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

574 REFERENCES IN FILE CA (1962 TO DATE)
 15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

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578 REFERENCES IN FILE CAPLUS (1962 TO DATE)

9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

- REFERENCE 1: 138:204856 CC-1065 Analogues Bearing Different DNA-Binding Subunits: Synthesis, Antitumor Activity, and Preliminary Toxicity Study. Wang, Yuqiang; Li, Lianfa; Ye, Wenqing; Tian, Zhiming; Jiang, Wei; Wang, Hong; Wright, Susan C.; Larrick, James W. (Panorama Research Inc., Mountain View, CA, 94043, USA). Journal of Medicinal Chemistry, 46(4), 634-637 (English) 2003. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.
- REFERENCE 2: 138:170073 Preparation of N-[2-[3-[(4-aminomethyl)phenyl]propylamino]ethyl]amides as human .beta.-tryptase inhibitors for treatment of respiratory diseases, allergic diseases, inflammatory intestinal diseases, hyperproliferative skin diseases, vascular edema, and rheumatoid arthritis. Kato, Yutaka; Miyazaki, Yutaka; Shimada, Hiroyasu; Manabe, Tadashi; Shiromizu, Ikuya; Okamoto, Atsushi (Mochida Pharmaceutical Co., Ltd., Japan). PCT Int. Appl. WO 2003011812 A1 20030213, 189 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2. APPLICATION: WO 2002-JP7843 20020801. PRIORITY: JP 2001-233818 20010801.
- REFERENCE 3: 138:170036 Synthesis of enynoindoles via vinyl and ethynyl indoles. Perez-Serrano, Leticia; Casarrubios, Luis; Dominguez, Gema; Gonzalez-Perez, Patxi; Perez-Castells, Javier (Departamento de Quimica, Facultad de CC, Experimentales y de la Salud, Universidad San Pablo-CEU, Madrid, 28668, Spain). Synthesis (13), 1810-1812 (English) 2002. CODEN: SYNTBF. ISSN: 0039-7881. Publisher: Georg Thieme Verlag.
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- REFERENCE 5: 138:122449 Carbopalladation of Nitriles: Synthesis of 2,3-Diaryllindenones and Polycyclic Aromatic Ketones by the Pd-Catalyzed Annulation of Alkynes and Bicyclic Alkenes by 2-Iodoarenenitriles. Pletnev, Alexandre A.; Tian, Qingping; Larock, Richard C. (Department of Chemistry, Iowa State University, Ames, IA, 50011, USA). Journal of Organic Chemistry, 67(26), 9276-9287 (English) 2002. CODEN: JOCEAH. ISSN: 0022-3263. Publisher: American Chemical Society.
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L8 ANSWER 19 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 1310-73-2 REGISTRY
CN Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sodium hydroxide (8CI)
OTHER NAMES:
CN Aetznatron
CN Ascarite
CN Caustic soda
CN Collo-Grillrein

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CN Collo-Tapetta
 CN GR
 CN GR (alkali reagent)
 CN Soda, caustic
 CN White caustic
 DR 8012-01-9
 MF H Na O
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
 DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
 ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*,
 SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
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Na-OH

63640 REFERENCES IN FILE CA (1962 TO DATE)
 392 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 63735 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:214611 Gas sensor and method of manufacturing the same.
 Jain, Kailash C.; Wang, Da Yu; Detwiler, Eric J.; Kikuchi, Paul (USA).
 U.S. Pat. Appl. Publ. US 2003047452 A1 20030313, 16 pp. (English).
 CODEN: USXXCO. APPLICATION: US 2001-949591 20010910.

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 Hata, Kimiyo (Nisshin Spinning Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho
 JP 2003059775 A2 20030228, 15 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 2001-243754 20010810.

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 Estrella, Veronica; Nair, M. T. S.; Nair, P. K. (Department of Solar
 Energy Materials, Centro de Investigacion en Energia, Universidad Nacional
 Autonoma de Mexico, Morelos, 62580, Mex.). Semiconductor Science and
 Technology, 17(11), 1198-1204 (English) 2002. CODEN: SSTEET. ISSN:
 0268-1242. Publisher: Institute of Physics Publishing.

REFERENCE 5: 138:211899 Magnesium anodization system and methods. Mawston,
 Ian Grant (Magnesium Technology Limited, N. Z.). PCT Int. Appl. WO
 2003016596 A1 20030227, 23 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT,
 AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM,
 DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
 KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
 NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,

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UA, UG, US, UZ, VC, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM;
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English).
CODEN: PIXXD2. APPLICATION: WO 2002-NZ156 20020814. PRIORITY: NZ
2001-512701 20010814.

- REFERENCE 6: 138:211879 Electrochemical corrosion behavior of component phases of NdFeB magnet. Xie, Faqin; Gao, Tao; Zou, Guangrong (Civil Aviation Eng. College, Northwestern Polytechnical Univ., Xi'an, 710072, Peop. Rep. China). Fushi Kexue Yu Fanghu Jishu, 14(5), 260-262 (Chinese) 2002. CODEN: FKFJED. ISSN: 1002-6495. Publisher: Fushi Kexue Yu Fanghu Jishu Bianjibu.
- REFERENCE 7: 138:211863 Cathode potential drop in a glow discharge with an electrolyte cathode and effective coefficient of electron emission from a solution. Khlyustova, A. V.; Maksimov, A. I. (Inst. Khim. Rastvorov, RAN, Ivanovo, 153045, Russia). Elektronnaya Obrabotka Materialov (5), 35-40 (Russian) 2002. CODEN: EOBMAF. ISSN: 0013-5739. Publisher: Institut Prikladnoi Fiziki AN Respubliki Moldova.
- REFERENCE 8: 138:211759 A wide energy range personnel neutron dosimeter. Izerrouken, M.; Skvarc, J.; Ilic, R. (Centre de Recherche Nucleaire de Draria, Algiers, Algeria). Radiation Measurements, 37(1), 21-24 (English) 2003. CODEN: RMEAEP. ISSN: 1350-4487. Publisher: Elsevier Science Ltd..
- REFERENCE 9: 138:210936 Calculation of individual isotope equilibrium constants for implementation in geochemical models. Thorstenson, Donald C.; Parkhurst, David L. (Branch of Regional Res., U.S.Geological Survey, Denver, CO, 80225, USA). Water-Resources Investigations Report (United States Geological Survey), 02-4172, i-iii,1-129 (English) 2002. CODEN: WIREFS.
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- L8 ANSWER 20 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 1310-58-3 REGISTRY
CN Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Potassium hydroxide (8CI)
OTHER NAMES:
CN Caustic potash
CN Cyantek CC 723
CN Potash
DR 71769-53-4, 29857-72-5
MF H K O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

K-OH

26067 REFERENCES IN FILE CA (1962 TO DATE)
183 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
26131 REFERENCES IN FILE CAPLUS (1962 TO DATE)

- REFERENCE 1: 138:214676 Alkalimetric determination of tridecanoic acid using oil-in-water emulsions solubilized by sodium dodecylsulfate. Kulichenko, S. A.; Shevchenko, A. M. (Kiev. Nats. Univ. im. Tarasa Shevchenko, Kiev, Ukraine). Ukrainskii Khimicheskii Zhurnal (Russian Edition), 68(7-8), 103-106 (Russian) 2002. CODEN: UKZHAU. ISSN: 0041-6045. Publisher: Institut Obshchei i Neorganicheskoi Khimii im. V. I. Vernadskogo NAN Ukrainy.
- REFERENCE 2: 138:214611 Gas sensor and method of manufacturing the same. Jain, Kailash C.; Wang, Da Yu; Detwiler, Eric J.; Kikuchi, Paul (USA). U.S. Pat. Appl. Publ. US 2003047452 A1 20030313, 16 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-949591 20010910.
- REFERENCE 3: 138:213886 Process for producing an electric double layer capacitor and positive electrode for an electric double layer capacitor. Shinozaki, Yasuo; Yoshida, Naoki; Hiratsuka, Kazuya (Asahi Glass Company, Limited, Japan). U.S. Pat. Appl. Publ. US 2003048594 A1 20030313, 6 pp. (English). CODEN: USXXCO. APPLICATION: US 2002-226135 20020823. PRIORITY: JP 2001-253267 20010823.
- REFERENCE 4: 138:213855 Refinement of amorphous niobium oxide dielectric films and manufacture of niobium solid-electrolytic capacitors. Shimizu, Kunihiro; Yoshida, Katsuhiko (NEC Tokin Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2003059777 A2 20030228, 13 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-247673 20010817.
- REFERENCE 5: 138:213832 Electroplating and electroless plating of metal in the manufacture of programmable RAM devices. Klein, Rita J. (USA). U.S. Pat. Appl. Publ. US 2003052330 A1 20030320, 21 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-956783 20010920.
- REFERENCE 6: 138:213615 Method and apparatus for chemical-mechanical jet etching of Si, GaAs, glass and other semiconductor structures. Bachrach, Robert Z.; Chinn, Jeffrey D. (USA). U.S. Pat. Appl. Publ. US 2003038110 A1 20030227, 9 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-932396 20010817.
- REFERENCE 7: 138:213326 Method of electrochemically etching diaphragm for CMOS integrated pressure sensor. Sooriakumar, K.; Tucker, Bob; Ray, Cindy (USA). IP.com Journal, 2(7), 95 (No. IPCOM000008452D) (English) 14 Jun 2002. IP 8452D 20020614. CODEN: IJPOBX. ISSN: 1533-0001. PRIORITY: IP 2002-8452D 20020614. Publisher: IP.com, Inc..
- REFERENCE 8: 138:212685 Method to remove Mo/Si multilayers without damaging starting substrate. Mangat, Pawitter J. S.; Talin, A. Alec (USA). IP.com Journal, 2(6), 209 (No. IPCOM000008275D) (English) 31 May 2002. IP 8275D 20020531. CODEN: IJPOBX. ISSN: 1533-0001. PRIORITY: IP 2002-8275D 20020531. Publisher: IP.com, Inc..
- REFERENCE 9: 138:210871 Kinetics of the reaction of CO₂ and OH⁻ ions at

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infinite dilution. Kucka, Lars; Richter, Joachim; Kenig, Eugeny Y.; Gorak, Andrzej (Germany). *Chemie Ingenieur Technik*, 75(1-2), 90-94 (German) 2003. CODEN: CITEAH. ISSN: 0009-286X. Publisher: Wiley-VCH Verlag GmbH & Co. KGaA.

REFERENCE 10: 138:210654 Water structure and electron trapping in aqueous ionic solutions. Wolszczak, M.; Wypych, M.; Tomczyk, M.; Kroh, J. (Institute of Applied Radiation Chemistry, Technical University of Lodz, Lodz, 93-590, Pol.). *Research on Chemical Intermediates*, 28(6), 537-549 (English) 2002. CODEN: RCINEE. ISSN: 0922-6168. Publisher: VSP BV.

L8 ANSWER 21 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 1125-80-0 REGISTRY

CN Isoquinoline, 3-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Methylisoquinoline

FS 3D CONCORD

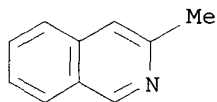
MF C10 H9 N

CI COM

LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSChem, DETHERM*, Gmelin*, HODOC*, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, RTECS*, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

218 REFERENCES IN FILE CA (1962 TO DATE)

218 REFERENCES IN FILE CAPLUS (1962 TO DATE)

32 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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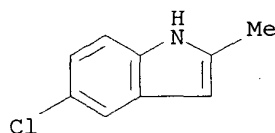
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L8 ANSWER 22 OF 38 REGISTRY COPYRIGHT 2003 ACS
 RN 1075-35-0 REGISTRY
 CN 1H-Indole, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Indole, 5-chloro-2-methyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 2-Methyl-5-chloroindole .
 CN 5-Chloro-2-methyl-1H-indole
 CN 5-Chloro-2-methylindole
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 CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

45 REFERENCES IN FILE CA (1962 TO DATE)
 45 REFERENCES IN FILE CAPLUS (1962 TO DATE)
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 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,
 DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
 IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
 MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
 TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG,
 KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK,
 ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD,
 TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US21063
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 yl)benzoquinones by Acid-Catalyzed Condensation of Indoles with
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 Chemistry, 67(24), 8374-8388 (English) 2002. CODEN: JOCEAH. ISSN:
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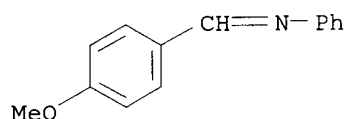
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L8 ANSWER 23 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN **836-41-9** REGISTRY
CN Benzenamine, N-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aniline, N-(p-methoxybenzylidene)- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (4-Methoxybenzylidene)aniline
CN (4-Methoxybenzylidene)phenylamine
CN (4-Methoxyphenylmethylene)(phenyl)amine
CN (p-Methoxybenzylidene)aniline
CN N-(4-Methoxybenzylidene)aniline
CN N-(p-Methoxybenzylidene)aniline
CN p-Methoxybenzalaniline
CN p-Methoxybenzaldehyde anil
FS 3D CONCORD
MF C14 H13 N O
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPATFULL
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Other Sources: EINECS**
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489 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
490 REFERENCES IN FILE CAPLUS (1962 TO DATE)
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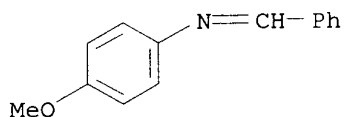
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REFERENCE 10: 137:169469 Reactions of unsymmetrical .alpha.-diazo-.beta.-

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L8 ANSWER 24 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 783-08-4 REGISTRY
CN Benzenamine, 4-methoxy-N-(phenylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN p-Anisidine, N-benzylidene- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 4-Methoxy-N-(phenylmethylene)benzenamine
CN 4-Methoxy-N-benzylideneaniline
CN Benzaldehyde p-anisidine imine
CN Benzylidene-4-methoxyaniline
CN Benzylidene-p-methoxyaniline
CN Benzylidene-p-methoxyphenylamine
CN N-(4-Methoxyphenyl)benzaldimine
CN N-(4-Methoxyphenyl)benzylideneimine
CN N-(p-Methoxyphenyl)benzenemethanimine
CN N-Benzylidene-4-methoxyaniline
CN N-Benzylidene-p-anisidine
CN N-Benzylidene-p-methoxyaniline
FS 3D CONCORD
MF C14 H13 N O
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, IFICDB, IFIPAT, IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER,
USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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534 REFERENCES IN FILE CAPLUS (1962 TO DATE)
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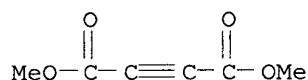
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RN 762-42-5 REGISTRY
 CN 2-Butynedioic acid, dimethyl ester (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acetylenedicarboxylic acid, dimethyl ester (6CI, 8CI)
 OTHER NAMES:
 CN 1,2-Bis(methoxycarbonyl)acetylene
 CN 1,2-Bis(methoxycarbonyl)ethyne
 CN Bis(carbomethoxy)acetylene
 CN Bis(methoxycarbonyl)acetylene
 CN Butynedioic acid dimethyl ester
 CN Di(carbomethoxy)acetylene
 CN Dimethyl 1,2-acetylenedicarboxylate
 CN Dimethyl 2-butynedioate
 CN Dimethyl acetylenedicarboxylate
 CN Dimethyl butyne-1,4-dioate
 CN Dimethyl butynedioate
 CN Dimethyl ethynedicarboxylate
 FS 3D CONCORD
 MF C6 H6 O4
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
 CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CSChem, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2,
 ENCOMPAT, ENCOMPAT2, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDb, MEDLINE,
 NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6090 REFERENCES IN FILE CA (1962 TO DATE)
 13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6101 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 71 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:205076 Preparation of diamines as factor Xa inhibitors.
 Ohta, Toshiharu; Komoriya, Satoshi; Yoshino, Toshiharu; Uoto, Kouichi;
 Nakamoto, Yumi; Naito, Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu;
 Kanno, Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji; Nagamochi,
 Masatoshi; Kobayashi, Syozo; Ono, Makoto (Daiichi Pharmaceutical Co.,
 Ltd., Japan). PCT Int. Appl. WO 2003016302 A1 20030227, 847 pp.
 DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE,
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF,
 BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU,
 MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2.
 APPLICATION: WO 2002-JP8119 20020808. PRIORITY: JP 2001-243046 20010809;

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JP 2001-311808 20011009; JP 2001-398708 20011228; WO 2002-JP2683 20020320;
WO 2002-JP6141 20020620.

- REFERENCE 2: 138:205012 A Novel Three-Component Reaction for the Diastereoselective Synthesis of 2H-Pyrimido[2,1-a]isoquinolines via 1,4-Dipolar Cycloaddition. Nair, Vijay; Sreekanth, A. R.; Abhilash, N.; Bhadbhade, Mohan M.; Gonnade, Rajesh C. (Organic Chemistry Division, Regional Research Laboratory, CSIR, Trivandrum, 695 019, India). *Organic Letters*, 4(21), 3575-3577 (English) 2002. CODEN: ORLEF7. ISSN: 1523-7060. Publisher: American Chemical Society.
- REFERENCE 3: 138:204927 Reaction of 4-azidoquinoline N-oxide with dimethyl acetylenedicarboxylate. Ryzhakov, A. V.; Rodina, L. L. (Karelian Science Center, Russian Academy of Sciences, Petrozavodsk, 185003, Russia). *Chemistry of Heterocyclic Compounds* (New York, NY, United States) (Translation of *Khimiya Geterotsiklicheskikh Soedinenii*), 38(6), 700-701 (English) 2002. CODEN: CHCCAL. ISSN: 0009-3122. Publisher: Kluwer Academic/Consultants Bureau.
- REFERENCE 4: 138:204901 Generation and cycloadditions of azirinium difluoromethanides - strained azomethine ylides. Khlebnikov, Alexander F.; Novikov, Mikhail S.; Amer, Amer A. (Department of Chemistry, St. Petersburg State University, St. Petersburg, 198504, Russia). *Tetrahedron Letters*, 43(47), 8523-8525 (English) 2002. CODEN: TELEAY. ISSN: 0040-4039. Publisher: Elsevier Science Ltd..
- REFERENCE 5: 138:204899 Diisopropylamino isocyanide and DMAD in multiple component reactions (MCRs): novel synthesis of substituted 1-amino-3-pyrrolin-2-ones by reaction with aldehydes and dicarbonyl compounds. Nair, Vijay; Mathen, Joseph Swaroop; Viji, S.; Srinivas, R.; Nandakumar, M. V.; Varma, Luxmi (Organic Chemistry Division, Regional Research Laboratory, Trivandrum, 695 019, India). *Tetrahedron*, 58(40), 8113-8118 (English) 2002. CODEN: TETRAB. ISSN: 0040-4020. Publisher: Elsevier Science Ltd..
- REFERENCE 6: 138:188031 Synthesis of highly functionalized phenylalanine derivatives via cross-ene metathesis reactions. Kotha, Sambasivarao; Halder, Somnath; Brahmachary, Enugurthi (Department of Chemistry, Indian Institute of Technology-Bombay, Mumbai, 400 076, India). *Tetrahedron*, 58(45), 9203-9208 (English) 2002. CODEN: TETRAB. ISSN: 0040-4020. Publisher: Elsevier Science Ltd..
- REFERENCE 7: 138:187998 Synthesis of (.-)-branched-chain azaisonucleosides via Michael addition of 5-nitro-2,2-pentamethylene-1,3-dioxane to methyl 2-bromoacrylate. Mironiuk-Puchalska, Ewa; Kolaczowska, Ewa; Sas, Wojciech (Faculty of Chemistry, Warsaw University of Technology, Warsaw, 00-664, Pol.). *Tetrahedron Letters*, 43(46), 8351-8354 (English) 2002. CODEN: TELEAY. ISSN: 0040-4039. Publisher: Elsevier Science Ltd..
- REFERENCE 8: 138:187859 Platinum complex catalyzed reaction of tributyltin cyanide with alkynes. Obora, Yasushi; Baleta, Angelo S.; Tokunaga, Makoto; Tsuji, Yasushi (Graduate School of Science, Catalysis Research Center and Division of Chemistry, Hokkaido University, Sapporo, 060-0811, Japan). *Journal of Organometallic Chemistry*, 660(2), 173-177 (English) 2002. CODEN: JORCAI. ISSN: 0022-328X. Publisher: Elsevier Science B.V..
- REFERENCE 9: 138:187696 Heterocycles by cascade reactions of versatile thioureido-acetamides. Schmeyers, Jens; Kaupp, Gerd (Organic Chemistry I, FB 9, University of Oldenburg, Oldenburg, D-26111, Germany). *Tetrahedron*, 58(36), 7241-7250 (English) 2002. CODEN: TETRAB. ISSN: 0040-4020.

Searched by: Mary Hale 308-4258 CM-1 1E01

Publisher: Elsevier Science Ltd..

REFERENCE 10: 138:187673 Catalytic Enantioselective [3 + 2]-Cycloadditions of Diazoketone-Derived Aryl-Substituted Carbonyl Ylides. Hodgson, David M.; Glen, Rebecca; Grant, Guy H.; Redgrave, Alison J. (Dyson Perrins Laboratory, Department of Chemistry, University of Oxford, Oxford, OX1 3QY, UK). Journal of Organic Chemistry, 68(2), 581-586 (English) 2003. CODEN: JOCEAH. ISSN: 0022-3263. Publisher: American Chemical Society.

L8 ANSWER 26 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 612-58-8 REGISTRY

CN Quinoline, 3-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Methylquinoline

FS 3D CONCORD

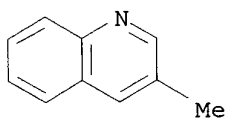
MF C10 H9 N

CI COM

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DETHERM*, HODOC*, MEDLINE, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

208 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

209 REFERENCES IN FILE CAPLUS (1962 TO DATE)

9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:180186 A comparison of the binding of three series of nicotinic ligands. Lee, Mase; Dukat, Malgorzata; Liao, Liang; Flammia, Dwight; Imad Damaj, M.; Martin, Billy; Glennon, Richard A. (School of Pharmacy, Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA, 23298, USA). Bioorganic & Medicinal Chemistry Letters, 12(15), 1989-1992 (English) 2002. CODEN: BMCLE8. ISSN: 0960-894X. Publisher: Elsevier Science Ltd..

REFERENCE 2: 137:364891 Preparation of pyridinyl-fused bicyclic amide fungicides. Song, Ying (E.I. Du Pont de Nemours and Company, USA). PCT Int. Appl. WO 2002091830 A1 20021121, 84 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US18394 20020514. PRIORITY: US 2001-PV290884 20010515.

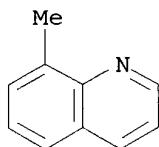
Searched by: Mary Hale 308-4258 CM-1 1E01

- REFERENCE 3: 137:262728 1H chemical shifts in NMR. Part 18.1 Ring currents and π -electron effects in hetero-aromatics. Abraham, Raymond J.; Reid, Matthew (Chemistry Department, The University of Liverpool, Liverpool, L69 3BX, UK). Journal of the Chemical Society, Perkin Transactions 2 (6), 1081-1091 (English) 2002. CODEN: JCSPGI. ISSN: 1472-779X. Publisher: Royal Society of Chemistry.
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- REFERENCE 5: 137:184468 Antibodies to argatroban derivatives and their use in therapeutic and diagnostic treatments. Thibaudeau, Karen; Blanchard, Dominique; Bridon, Dominique P.; Ezrin, Alan M.; Hardy, Margaret; Boudjellab, Nissab (Conjuchem, Inc., Can.). U.S. US 6440417 B1 20020827, 19 pp. (English). CODEN: USXXAM. APPLICATION: US 1999-434605 19991105. PRIORITY: US 1998-PV107475 19981106.
- REFERENCE 6: 137:169440 One-Pot Synthesis of Pentacyclic Diamines from Quinolines by a New Zn/AcOH-Promoted Cascade Reaction. Gauffre, Jean-Christophe; Grignon-Dubois, Micheline; Rezzonico, Bernadette; Leger, Jean-Michel (Laboratoire de Chimie des Substances Vegetales, LCSV - Institut du Pin, Universite Bordeaux I, Talence, 33405, Fr.). Journal of Organic Chemistry, 67(14), 4696-4701 (English) 2002. CODEN: JOCEAH. ISSN: 0022-3263. Publisher: American Chemical Society.
- REFERENCE 7: 137:154705 Preparation of adamantanols using catalysts containing imides and nitrogen oxides. Ishii, Yasutaka; Nakano, Tatsuya; Tatsumi, Atsuo (Daicel Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002226404 A2 20020814, 18 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-70781 20010313. PRIORITY: JP 2000-361973 20001128.
- REFERENCE 8: 137:48545 Intramolecular photoinduced electron transfer in zwitterionic quinolinium dyes - experimental and theoretical studies. Engel, Th.; Kab, G.; Lanig, H. (Computer Chemistry Center, University of Erlangen-Nurnberg, Erlangen, D-91052, Germany). Zeitschrift fuer Physikalische Chemie (Muenchen, Germany), 216(3), 305-332 (English) 2002. CODEN: ZPCFAX. ISSN: 0044-3336. Publisher: R. Oldenbourg Verlag.
- REFERENCE 9: 137:32104 Biocatalytic oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid. Wong, John W.; Watson, Harry A., Jr.; Bouressa, James F.; Burns, Michael P.; Cawley, James J.; Doro, Albert E.; Guzek, Donald B.; Hintz, Michael A.; McCormick, Ellen L.; Scully, Douglas A.; Siderewicz, Joseph M.; Taylor, William J.; Truesdell, Susan J.; Wax, Richard G. (Bioprocess Research and Development, Pfizer Global Research and Development, Groton, CT, 06340, USA). Organic Process Research & Development, 6(4), 477-481 (English) 2002. CODEN: OPRDFK. ISSN: 1083-6160. Publisher: American Chemical Society.
- REFERENCE 10: 137:20065 Evaluation of C-H bond dissociation energies in alkylaromatic hydrocarbons and the enthalpies of corresponding radicals from kinetic data. Kromkin, E. A.; Tumanov, V. E.; Denisov, E. T. (Inst. Problem Khim. Fiz., RAN, Chernogolovka, Russia). Neftekhimiya, 42(1), 3-13 (Russian) 2002. CODEN: NEFTAH. ISSN: 0028-2421. Publisher: Nauka.

L8 ANSWER 27 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 611-32-5 REGISTRY

Searched by: Mary Hale 308-4258 CM-1 1E01

CN Quinoline, 8-methyl- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 8-Methylquinoline
 FS 3D CONCORD
 MF C10 H9 N
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HODOC*,
 MEDLINE, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

419 REFERENCES IN FILE CA (1962 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 420 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:214672 Chemical mass shifts in quadrupole ion traps as analytical characteristics of nitro-aromatic compounds. Li, Hongyan; Peng, Yanan; Plass, Wolfgang R.; Cooks, R. Graham (Department of Chemistry, Purdue University, West Lafayette, IN, 47907-1393, USA). International Journal of Mass Spectrometry, 222(1-3), 481-491 (English) 2003. CODEN: IMSPF8. ISSN: 1387-3806. Publisher: Elsevier Science B.V..

REFERENCE 2: 138:162701 Comparison of different retention models in normal- and reversed-phase liquid chromatography with binary mobile phases. Zapala, Wojciech; Kaczmarski, Krzysztof; Kowalska, Teresa (Department of Chemical Engineering and Process Control, Chemical Faculty, Rzeszow University of Technology, Rzeszow, 35-959, Pol.). Journal of Chromatographic Science, 40(10), 575-580 (English) 2002. CODEN: JCHSBZ. ISSN: 0021-9665. Publisher: Preston Publications.

REFERENCE 3: 138:106327 QSPR study of quenching of singlet oxygen by aliphatic amines. Zhu, Chun M.; Wang, Liang Y.; Kong, Lin R.; Yang, Xi; Wang, Lian S.; Zheng, Shao J.; Chen, Fei L.; Feng, Man Z.; Huang, Zong (Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Canton, 510070, Peop. Rep. China). Toxicological and Environmental Chemistry, 79(1-2), 47-54 (English) 2001. CODEN: TECSDY. ISSN: 0277-2248. Publisher: Gordon & Breach Science Publishers.

REFERENCE 4: 138:84853 Development of Binary Classification of Structural Chromosome Aberrations for a Diverse Set of Organic Compounds from Molecular Structure. Serra, J. R.; Thompson, E. D.; Jurs, P. C. (Chemistry Department, Pennsylvania State University, University Park, PA, 16802, USA). Chemical Research in Toxicology, 16(2), 153-163 (English)

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2003. CODEN: CRTOEC. ISSN: 0893-228X. Publisher: American Chemical Society.

REFERENCE 5: 138:32503 Retention mechanism of model compounds on polar bonded stationary phases in normal phase systems. Waksmundzka-Hajnos, Monika; Petruczynik, Anna; Soczewinski, Edward; Hawryl, Anna (Department of Inorganic and Analytical Chemistry, Medical University, Lublin, 20-081, Pol.). *Chemia Analityczna* (Warsaw, Poland), 47(4), 483-505 (English) 2002. CODEN: CANWAJ. ISSN: 0009-2223. Publisher: Polish Chemical Society.

REFERENCE 6: 138:11404 CXCR4 antagonistic drugs comprising nitrogen-containing compounds. Yanaka, Mikiro; Yamazaki, Toru; Bannai, Kenji; Hirose, Kunitaka (Kureha Chemical Industry Company, Limited, Japan). *PCT Int. Appl. WO 2002094261 A1* 20021128, 227 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2. APPLICATION: WO 2002-JP4846 20020520. PRIORITY: JP 2001-154904 20010524.

REFERENCE 7: 137:279076 The reactions of quinoline and its derivatives with dimethyl acetylenedicarboxylate (DMAD). Yildirim, Yilmaz; Aydogan, Emine; Disli, Ali (Department of Chemistry, Faculty of Arts and Sciences, Gazi University, Ankara, 06500, Turk.). *International Journal of Chemistry*, 12(1), 9-12 (English) 2002. CODEN: INJCEW. Publisher: Institute of Science & Technology.

REFERENCE 8: 137:279075 Ruthenium-catalyzed synthesis of quinolines via reductive heteroannulation of nitroarenes with 3-amino-1-propanols. Cho, Chan Sik; Kim, Tae Kyung; Kim, Tae-Jeong; Shim, Sang Chul; Yoon, Nam Sik (Department of Industrial Chemistry, College of Engineering, Kyungpook National University, Taegu, 702-701, S. Korea). *Journal of Heterocyclic Chemistry*, 39(2), 291-294 (English) 2002. CODEN: JHTCAD. ISSN: 0022-152X. Publisher: HeteroCorporation.

REFERENCE 9: 137:154705 Preparation of adamantanols using catalysts containing imides and nitrogen oxides. Ishii, Yasutaka; Nakano, Tatsuya; Tatsumi, Atsuo (Daicel Chemical Industries, Ltd., Japan). *Jpn. Kokai Tokkyo Koho JP 2002226404 A2* 20020814, 18 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-70781 20010313. PRIORITY: JP 2000-361973 20001128.

REFERENCE 10: 137:109191 Oxidation of 6- and 8-methylquinolines upon UV illumination in the presence of powdered TiO₂ photocatalyst. Navio, J. A.; Garcia-Gomez, M.; Pradera, M. A.; Fuentes, J. (Instituto de Ciencia de Materiales de Sevilla, Centro Mixto CSIC-Universidad de Sevilla and Dpto. de Quimica Inorganica, Universidad de Sevilla, Seville, 41092, Spain). *Photochemical & Photobiological Sciences*, 1(2), 133-135 (English) 2002. CODEN: PPSHCB. ISSN: 1474-905X. Publisher: Royal Society of Chemistry.

L8 ANSWER 28 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 538-51-2 REGISTRY
CN Benzenamine, N-(phenylmethylene)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aniline, N-benzylidene- (8CI)
OTHER NAMES:

Searched by: Mary Hale 308-4258 CM-1 1E01

CN (Benzylidene)phenylamine
 CN Benzaldehyde anil
 CN Benzaldehyde N-phenylimine
 CN Benzylideneaniline
 CN M4
 CN M4 (amine)
 CN N-(Phenylmethylene)benzenamine
 CN N-(Phenylmethyldiene)benzenamine
 CN N-Benzalaniline
 CN N-Benzyldieneaniline
 CN N-Phenylbenzalldimine
 CN N-Phenylbenzenemethanimine
 CN N-Phenylbenzyldieneimine
 CN Phenyl(benzyldiene)amine
 FS 3D CONCORD
 MF C13 H11 N
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB,
 IFIPAT, IFIUDB, MRCK*, NIOSHTIC, SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Ph-CH=N-Ph

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2110 REFERENCES IN FILE CA (1962 TO DATE)
 52 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2112 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 41 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:187432 Remarkable enhancement of Lewis acidity of
 chlorosilane by the combined use of indium(III) chloride. Onishi,
 Yoshiyuki; Ito, Takeshi; Yasuda, Makoto; Baba, Akio (Graduate School of
 Engineering, Department of Molecular Chemistry and Handai Frontier
 Research Center, Osaka University, Suita, Osaka, 565-0871, Japan).
 Tetrahedron, 58(41), 8227-8235 (English) 2002. CODEN: TETRAB. ISSN:
 0040-4020. Publisher: Elsevier Science Ltd..

REFERENCE 2: 138:187401 Preparation of hydroxycarboxylic esters and related
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REFERENCE 3: 138:170129 Low-valent titanium induced cyclization of dimeric
 dianions of anils with triphosgene. A safe and efficient method for the
 syntheses of substituted imidazolidine 2-ones. Li, Zhifang; Zhang,
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 Peop. Rep. China). Synthetic Communications, 32(17), 2613-2618 (English)
 2002. CODEN: SYNCV. ISSN: 0039-7911. Publisher: Marcel Dekker, Inc..

REFERENCE 4: 138:169922 Participation of self-generated polyaniline support
 in copper(II) catalysed oxidative reaction of phenyl aldimines. Handique,

Searched by: Mary Hale 308-4258 CM-1 1E01

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L8 ANSWER 29 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 491-35-0 REGISTRY

CN Quinoline, 4-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Lepidine (6CI, 8CI)

OTHER NAMES:

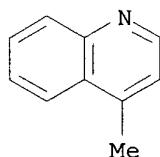
CN .gamma.-Methylquinoline

CN 4-Lepidine

CN 4-Methylquinoline

Searched by: Mary Hale 308-4258 CM-1 1E01

CN Cincholepidine
 CN Lepidin
 FS 3D CONCORD
 MF C10 H9 N
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE,
 GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NAPRALERT,
 NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

810 REFERENCES IN FILE CA (1962 TO DATE)
 12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 811 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 62 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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- REFERENCE 5: 138:89650 N-Bridgehead heterocyclic compounds thenoyl-substituted. I Indolizines and benzoindolizines. Georgescu, Emilian I.; Georgescu, Florentina; Roibu, Constantin; Draghici, Constantin C.; Caproiu, Miron T. (S. C. Oltchim S. A. Research Center, Ramnicu Valcea, 1000, Rom.). Revue Roumaine de Chimie, Volume Date 2001, 46(4), 357-362 (English) 2002. CODEN: RRCHAX. ISSN: 0035-3930. Publisher: Editura Academiei Romane.
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- REFERENCE 7: 138:4598 Preparation of substituted 5,6-dihydro-4H-pyrrolo[1,2-b]pyrazoles as TGF- β signal transduction inhibitors. Sawyer, Jason Scott; Beight, Douglas Wade; Ciapetti, Paola; Decollo, Todd Vincent; Godfrey, Alexander Glenn; Goodson, Theodore, Jr.; Herron, David Kent; Li, Hong-yu; Liao, Junkai; Mcmillen, William Thomas; Miller, Shawn Christopher; Mort, Nicolas Anthony; Yingling, Jonathan Michael; Smith, Edward C. R. (Eli Lilly and Company, USA; et al.). PCT Int. Appl. WO 2002094833 A1 20021128, 305 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US11884 20020513. PRIORITY: US 2001-PV293464 20010524.
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1081-1091 (English) 2002. CODEN: JCSPGI. ISSN: 1472-779X. Publisher:
Royal Society of Chemistry.

L8 ANSWER 30 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 141-78-6 REGISTRY

CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acetic acid, ethyl ester

CN Acetic ether

CN Acetidin

CN Acetoxyethane

CN Ethyl acetate

CN Ethyl ethanoate

CN EtOAc

CN Vinegar naphtha

FS 3D CONCORD

MF C4 H8 O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*,
DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO,
SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Et-O-Ac

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

20910 REFERENCES IN FILE CA (1962 TO DATE)

103 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

20947 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:214680 Phase-transfer catalytic determination of phenols as
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REFERENCE 2: 138:214651 Comparison of the sorption properties of porous
polystyrene sorbents of various types. Belyakova, L. D.; Voloshchuk, A.

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M.; Vorob'eva, L. M.; Kurbanbekov, E.; Larionov, O. G.; Tsyurupa, M. P.; Pavlova, L. A.; Davankov, V. A. (Inst. Fiz. Khim., RAN, Moscow, Russia). Zhurnal Fizicheskoi Khimii, 76(9), 1674-1681 (Russian) 2002. CODEN: ZFKHA9. ISSN: 0044-4537. Publisher: MAIK Nauka.

REFERENCE 3: 138:214645 Odorant detective ability of QCM sensors coated with derivatives of dialkyl benzenedicarboxylate. Fujii, Shinjiro; Hirota, Kazuhiro (Graduate School of National Science, Dept. of Mecha. & Sys. Eng., Okayama University, Okayama, 700-8530, Japan). Nippon Aji to Nioi Gakkaishi, 9(3), 733-736 (Japanese) 2002. CODEN: NNGAEW. ISSN: 1340-4806. Publisher: Nippon Aji to Nioi Gakkai.

REFERENCE 4: 138:214644 Quarts-crystal microbalances coated with benzenecarboxylic acid alkyl ester: effect of number of alkyl carbon chain and benzene ring substituents on odor sensing. Koyama, Kanako; Hirota, Kazuhiro (Faculty of Engineering, Department of systems Engineering, Okayama University, Okayama, 700-8530, Japan). Nippon Aji to Nioi Gakkaishi, 9(3), 729-732 (Japanese) 2002. CODEN: NNGAEW. ISSN: 1340-4806. Publisher: Nippon Aji to Nioi Gakkai.

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REFERENCE 6: 138:210913 Liquid-vapor equilibrium. Methanol-ethylethanoate system. Ortega, J. (Laboratorio de Termodinamica y Fisicoquimica, Escuela Superior de Ingenieros Industriales, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, 35071, Spain). International DATA Series, Selected Data on Mixtures, Series A: Thermodynamic Properties of Non-Reacting Binary Systems of Organic Substances, 31(1), 15 (English) 2003. CODEN: ISDMAT. ISSN: 0147-1503. Publisher: National Institute of Standards and Technology.

REFERENCE 7: 138:210912 Liquid-vapor equilibrium. Methanol-ethyl ethanoate system. Ortega, J. (Laboratorio de Termodinamica y Fisicoquimica, Escuela Superior de Ingenieros Industriales, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, 35071, Spain). International DATA Series, Selected Data on Mixtures, Series A: Thermodynamic Properties of Non-Reacting Binary Systems of Organic Substances, 31(1), 14 (English) 2003. CODEN: ISDMAT. ISSN: 0147-1503. Publisher: National Institute of Standards and Technology.

REFERENCE 8: 138:210353 An improved process for the preparation of amorphous atorvastatin calcium salt (2:1). Suri, Sanjay; Singh, J.; Sarin, G. S.; Bansal, B. R. (Morepen Laboratories Ltd., India). PCT Int. Appl. WO 2003018547 A2 20030306, 14 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-IN152 20010831.

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REFERENCE 10: 138:210071 Crystallization and solid state properties of molecules of pharmaceutical interest. Bauer, M. (Department International d'Analyse, Sanofi-Synthelabo, Toulouse, F 31036, Fr.). Annales Pharmaceutiques Francaises, 60(3), 152-160 (French) 2002. CODEN: APFRAD. ISSN: 0003-4509. Publisher: Masson Editeur.

L8 ANSWER 31 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 126-33-0 REGISTRY

CN Thiophene, tetrahydro-, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,1-Dioxothiolan

CN Bondelane A

CN Bondolane A

CN Cyclic tetramethylene sulfone

CN Cyclotetramethylene sulfone

CN Sulfolan

CN Sulfolane

CN Sulpholane

CN Tetrahydrothiophene 1,1-dioxide

CN Tetrahydrothiophene dioxide

CN Tetrahydrothiophene S,S-dioxide

CN Tetramethylene sulfone

CN Thiacyclopentane dioxide

CN Thiolane 1,1-dioxide

CN Thiophane 1,1-dioxide

CN Thiophane dioxide

FS 3D CONCORD

MF C4 H8 O2 S

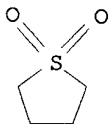
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3367 REFERENCES IN FILE CA (1962 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 1E01

53 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3374 REFERENCES IN FILE CAPLUS (1962 TO DATE)
68 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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- REFERENCE 3: 138:188647 Manufacture of low-molecular-weight epoxy resins. Pielichowski, Jan; Czub, Piotr; Penczek, Piotr (Politechnika Krakowska Im. Tadeusza Kosciuszki, Pol.). Pol. PL 182431 B1 20020131, 4 pp. (Polish). CODEN: POXXA7. APPLICATION: PL 1996-312802 19960212.
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- REFERENCE 5: 138:170005 Asymmetric alkene epoxidation with chromium oxo salen complexes Effect of .pi.-rich and other types of additives. Dalton, Cormac T.; Ryan, Kenneth M.; Langan, Ivan J.; Coyne, Eamonn J.; Gilheany, Declan G. (Chemistry Department, Conway Institute of Biomolecular and Biomedical Sciences, University College Dublin, Dublin, 4, Ire.). Journal of Molecular Catalysis A: Chemical, 187(2), 179-187 (English) 2002. CODEN: JMCCF2. ISSN: 1381-1169. Publisher: Elsevier Science B.V..
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- REFERENCE 7: 138:144938 Singlet oxygen generation from H2O2/MoO42-: peroxidation of hydrophobic substrates in pure organic solvents. Nardello, Veronique; Bogaert, Stephane; Alsters, Paul L.; Aubry, Jean-Marie (ENSCL, CNRS, Equipe de Recherches Oxydation et Formulation, LCOM, UMR, Villeneuve d'Ascq, 108 F-59652, Fr.). Tetrahedron Letters, 43(48), 8731-8734 (English) 2002. CODEN: TELEAY. ISSN: 0040-4039. Publisher: Elsevier Science Ltd..
- REFERENCE 8: 138:140080 High energy density hybrid battery/supercapacitor system. Amatucci, Glenn (Telcordia Technologies, Inc., USA). U.S. US 6517972 B1 20030211, 9 pp. (English). CODEN: USXXAM. APPLICATION: US 2000-650364 20000929.
- REFERENCE 9: 138:136815 Comparative evaluation of oxidizing and nucleophilic properties of some .alpha.-nucleophiles. Cassagne, Thierry; Cristau, Henri-Jean; Delmas, Gerard; Desgranges, Michel; Lion, Glaude; Magnaud, Gilbert; Torreilles, Eliane; Virieux, David (lab. Chimie Organique ENSCM, UMR 5076 du CNRS, Montpellier, 34296, Fr.). Journal of Chemical Research,

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Publisher: Science Reviews.

REFERENCE 10: 138:129014 Dibasic ester in solvent for stripping of photoresists on integrated circuits. Sahbari, Javad J. (Siliconvalley Chemlabs, Inc., USA). U.S. US 6511547 B1 20030128, 6 pp., Cont.-in-part of U.S. Ser. No. 328,176, abandoned. (English). CODEN: USXXAM.
APPLICATION: US 2000-661723 20000914. PRIORITY: US 1996-593628 19960130; US 1998-63627 19980420; US 1999-328176 19990608.

L8 ANSWER 32 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 100-52-7 REGISTRY

CN Benzaldehyde (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Artificial Almond Oil

CN Benzaldehyde FFC

CN Benzenecarbonal

CN Benzenecarboxaldehyde

CN Benzoic aldehyde

CN Phenylformaldehyde

CN Phenylmethanal

FS 3D CONCORD

MF C7 H6 O

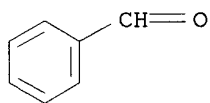
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

43048 REFERENCES IN FILE CA (1962 TO DATE)

665 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

43182 REFERENCES IN FILE CAPLUS (1962 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:210436 Polarographic determination of benzaldehyde in benzyl alcohol and sodium diclofenac injection formulations. Kazemifard, Amir G.; Moore, Douglas E.; Mohammadi, A. (College of Pharmacy, Medical Sciences University of Tehran, Tehran, Iran). Journal of Pharmaceutical and Biomedical Analysis, 30(2), 257-262 (English) 2002. CODEN: JPBADA. ISSN: 0731-7085. Publisher: Elsevier Science B.V..

REFERENCE 2: 138:210107 Rapid determination of liposome-water partition coefficients (K_{lw}) using liposome electrokinetic chromatography (LEKC).

Searched by: Mary Hale 308-4258 CM-1 1E01

Burns, Scott T.; Khaledi, Morteza G. (Department of Chemistry, North Carolina State University, Raleigh, NC, 27696-8204, USA). *Journal of Pharmaceutical Sciences*, 91(7), 1601-1612 (English) 2002. CODEN: JPMSAE. ISSN: 0022-3549. Publisher: Wiley-Liss, Inc..

REFERENCE 3: 138:209893 The composition and antimicrobial activity of the essential oil of the resurrection plant *Myrothamnus flabellifolius*. Viljoen, A. M.; Klepser, M. E.; Ernst, E. J.; Keele, D.; Roling, E.; van Vuuren, S.; Demirci, B.; Baser, K. H. C.; van Wyk, B.-E. (Department of Pharmacy and Pharmacology, University of the Witwatersrand, Parktown, 2193, S. Afr.). *South African Journal of Botany*, 68(1), 100-105 (English) 2002. CODEN: SAJBDD. ISSN: 0254-6299. Publisher: NISC Pty Ltd..

REFERENCE 4: 138:209311 Speciation of organic compounds from the exhaust of trucks and buses: effect of fuel and after-treatment on vehicle emission profiles. Lev-On, Miriam; LeTavec, Chuck; Uihlein, Jim; Kimura, Ken; Alleman, Teresa L.; Lawson, Douglas R.; Vertin, Keith; Gautam, Mridul; Thompson, Gregory J.; Wayne, W. Scott; Clark, Nigel; Okamoto, Robert; Rieger, Paul; Yee, Gary; Zielinska, Barbara; Sagebiel, John; Chatterjee, Sougato; Hallstrom, Kevin (BP, CA, USA). *Society of Automotive Engineers, [Special Publication] SP, SP-1723 (Diesel Particulate Systems and Gaseous Emissions)*, 119-144 (English) 2002. CODEN: SAESA2. ISSN: 0099-5908. Publisher: Society of Automotive Engineers.

REFERENCE 5: 138:206475 Synthesis of meso-substituted trimethine cyanine dyes and evaluation of their sensitivities in sensitized photo-polymerization. Kimura, Masaru; Mitekura, Hirofumi; No, Tomoko; Suzuki, Kazuyoshi (Department of Chemistry, Faculty of Science, Okayama University, Okayama, 700-8530, Japan). *Bulletin of the Chemical Society of Japan*, 75(12), 2655-2660 (English) 2002. CODEN: BCSJA8. ISSN: 0009-2673. Publisher: Chemical Society of Japan.

REFERENCE 6: 138:206148 Plastic articles comprising novel polymeric blue anthraquinone-derivative colorants. Xia, Jusong (Milliken & Company, USA). U.S. US 6528564 B1 20030304, 15 pp. (English). CODEN: USXXAM. APPLICATION: US 2001-976139 20011012.

REFERENCE 7: 138:205406 Novel copolymers of trisubstituted ethylenes and styrene. I. Alkyl and alkoxy ring-substituted ethyl 2-cyano-1-oxo-3-phenyl-2-propenylcarbamates. Kharas, Gregory B.; Fuerst, Antonia M.; Scola, Anthony, III; Bavirsha, Daniel J.; Bernau, Bradley M.; Brown, Santkileo K.; Ece, Pasa; Dabrowski, Anna N.; De Angelo, Penny; Fatemi, Farrah R.; Watson, Kenneth (Chemistry Department, DePaul University, Chicago, IL, 60614-3214, USA). *Journal of Macromolecular Science, Pure and Applied Chemistry*, A39(12), 1383-1391 (English) 2002. CODEN: JSPCE6. ISSN: 1060-1325. Publisher: Marcel Dekker, Inc..

REFERENCE 8: 138:205242 Methods for the synthesis of amines such as ephedrine and intermediates via reductive animation of ketones. Smallridge, Andrew John; Trewhella, Maurice Arthur; Wilkinson, Kylie Anne (Polychip Pharmaceuticals Pty Ltd., Australia; Victoria University of Technology). PCT Int. Appl. WO 2003018531 A1 20030306, 29 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2.

Searched by: Mary Hale 308-4258 CM-1 1E01

APPLICATION: WO 2002-AU1148 20020826. PRIORITY: AU 2001-7326 20010828.

REFERENCE 9: 138:205142 Preparation and Chemistry of Phosphoranyl-Derived Iodanes. Zhdankin, Viktor V.; Maydanovych, Olena; Herschbach, Jon; Bruno, Jessica; Matveeva, Elena D.; Zefirov, Nikolai S. (Department of Chemistry, University of Minnesota Duluth, Duluth, MN, 55812, USA). Journal of Organic Chemistry, 68(3), 1018-1023 (English) 2003. CODEN: JOCEAH. ISSN: 0022-3263. Publisher: American Chemical Society.

REFERENCE 10: 138:205136 A robust, reactive, and remarkably simple to prepare sterically encumbered meta-terphenyl ligand. Smith, Rhett C.; Ren, Tong; Protasiewicz, John D. (Department of Chemistry, Case Western Reserve University, Cleveland, OH, 44106-7078, USA). European Journal of Inorganic Chemistry (11), 2779-2783 (English) 2002. CODEN: EJICFO. ISSN: 1434-1948. Publisher: Wiley-VCH Verlag GmbH & Co. KGaA.

L8 ANSWER 33 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 100-51-6 REGISTRY

CN Benzenemethanol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzyl alcohol (8CI)

OTHER NAMES:

CN (Hydroxymethyl)benzene

CN .alpha.-Hydroxytoluene

CN .alpha.-Toluenol

CN Benzenecarbinol

CN Benzylic alcohol

CN Phenylcarbinol

CN Phenylmethanol

CN Phenylmethyl alcohol

CN Sunmorl BK 20

FS 3D CONCORD

DR 1336-27-2, 185532-71-2

MF C7 H8 O

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

HO-CH₂-Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18289 REFERENCES IN FILE CA (1962 TO DATE)

392 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

18336 REFERENCES IN FILE CAPLUS (1962 TO DATE)

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:210436 Polarographic determination of benzaldehyde in

Searched by: Mary Hale 308-4258 CM-1 1E01

benzyl alcohol and sodium diclofenac injection formulations. Kazemifard, Amir G.; Moore, Douglas E.; Mohammadi, A. (College of Pharmacy, Medical Sciences University of Tehran, Tehran, Iran). Journal of Pharmaceutical and Biomedical Analysis, 30(2), 257-262 (English) 2002. CODEN: JPBADA. ISSN: 0731-7085. Publisher: Elsevier Science B.V..

- REFERENCE 2: 138:210354 Antimicrobial and anti-inflammatory peptides. McNicol, Patricia J.; Pawlak, Sonia K.; Rubinchik, Evelina; Cameron, Dale; Guarna, Maria Marta (Micrologix Biotech Inc., Can.). PCT Int. Appl. WO 2003018619 A2 20030306, 66 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-CA1351 20020826. PRIORITY: US 2001-PV315003 20010824; US 2002-229368 20020826.
- REFERENCE 3: 138:210315 Polyethylene glycol as solubilizing agent for drugs. Mitsuchika, Kozo; Sakagami, Kenji; Hashizume, Satoshi (Nof Corporation, Japan). Jpn. Kokai Tokkyo Koho JP 2003063998 A2 20030305, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-257178 20010828.
- REFERENCE 4: 138:210107 Rapid determination of liposome-water partition coefficients (K_{lw}) using liposome electrokinetic chromatography (LEKC). Burns, Scott T.; Khaledi, Morteza G. (Department of Chemistry, North Carolina State University, Raleigh, NC, 27696-8204, USA). Journal of Pharmaceutical Sciences, 91(7), 1601-1612 (English) 2002. CODEN: JPMSAE. ISSN: 0022-3549. Publisher: Wiley-Liss, Inc..
- REFERENCE 5: 138:209919 Semipermanent hair dye compositions containing phosphates, alcohols or carbonates, and direct dyes. Tsuge, Hitoshi; Sakura, Masaaki (Hoyu Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003073239 A2 20030312, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-260966 20010830.
- REFERENCE 6: 138:206865 Preparation of vinyl ether compounds using transition metal compound catalysts. Ishii, Yasutaka; Nakano, Tatsuya; Inoue, Keizo (Daicel Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 1288186 A2 20030305, 24 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2002-19088 20020828. PRIORITY: JP 2001-261632 20010830.
- REFERENCE 7: 138:206563 Epoxy resin-based coating composition containing polyhexamethyleneguanidine hydrochloride. Sukhareva, L. A.; Semenov, G. V.; Bakirova, E. V.; Yakovlev, V. S.; Gubanov, M. I. (Moskovskii Gosudarstvennyi Universitet Prikladnoi Biotekhnologii, Russia). Russ. RU 2180907 C2 20020327, No pp. given (Russian). CODEN: RUXXE7. APPLICATION: RU 1999-125027 19991124.
- REFERENCE 8: 138:206082 Phenolic polymers and their manufacture and applications. Sone, Yoshihisa; Murata, Kiyotaka (Sumikin Air Water Chemical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003064164 A2 20030305, 14 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-257744 20010828.
- REFERENCE 9: 138:206051 Epoxy resin compositions and solid state devices

encapsulated therewith. Yeager, Gary William; Rubinsztajn, Malgorzata Iwona (General Electric Company, USA). Eur. Pat. Appl. EP 1285939 A1 20030226, 24 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2002-255577 20020809. PRIORITY: US 2001-935369 20010823.

REFERENCE 10: 138:205264 Highly deoxygenated sugars. I. C2-branched glucose derivatives and carbon linked deoxygenated disaccharides. Krohn, Karsten; Florke, Ulrich; Gehle, Dietmar (Fachbereich Chemie und Chemietechnik, Universitat Paderborn, Paderborn, 33098, Germany). Journal of Carbohydrate Chemistry, 21(5), 431-443 (English) 2002. CODEN: JCACDM. ISSN: 0732-8303. Publisher: Marcel Dekker, Inc..

L8 ANSWER 34 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 95-20-5 REGISTRY

CN 1H-Indole, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Indole, 2-methyl- (8CI)

OTHER NAMES:

CN 2-Methyl-1H-indole

CN 2-Methylindole

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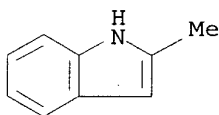
CI COM

LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHM, DETHERM*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1183 REFERENCES IN FILE CA (1962 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1184 REFERENCES IN FILE CAPLUS (1962 TO DATE)

25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:170483 Scandium perchlorate as a superior Lewis acid for regioselective ring opening of aziridine carboxylate with indoles. Nishikawa, Toshio; Kajii, Shigeo; Wada, Kyoko; Ishikawa, Miyuki; Isobe, Minoru (Laboratory of Organic Chemistry, Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, 464-8601, Japan). Synthesis (12), 1658-1662 (English) 2002. CODEN: SYNTBF. ISSN: 0039-7881. Publisher: Georg Thieme Verlag.

REFERENCE 2: 138:169830 Convenient synthesis of .alpha.-trifluoromethyl amines via aminofluoroalkylation of arenes with N-trimethylsilyl .alpha.-trifluoroacetaldehyde hemiaminal. Gong, Yuefa; Kato, Katsuya

Searched by: Mary Hale 308-4258 CM-1 1E01

(National Institute of Advanced Industrial Science and Technology (AIST), Nagoya, 463-8560, Japan). Journal of Fluorine Chemistry, 116(2), 103-107 (English) 2002. CODEN: JFLCAR. ISSN: 0022-1139. Publisher: Elsevier Science B.V..

REFERENCE 3: 138:153549 Preparation of thieno[2,3-d]pyrimidinediones and their use in the modulation of autoimmune disease. Reynolds, Rachel Heulwen; Ingall, Anthony Howard; Rasul, Rukhsana Tasneem; Guile, Simon David; Cooper, Martin Edward (Astrazeneca AB, Swed.; Astrazeneca UK Limited). PCT Int. Appl. WO 2003011868 A1 20030213, 148 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-GB3399 20020724. PRIORITY: GB 2001-18479 20010728.

REFERENCE 4: 138:153504 Easy formation of SNH products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2H)-ones in the presence of tosyl chloride. Zyryanov, G. V.; Rusinov, V. L.; Chupakhin, O. N. (Ural State Technical University, Yekaterinburg, 620002, Russia). Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya), 51(6), 1042-1044 (English) 2002. CODEN: RCBUEY. ISSN: 1066-5285. Publisher: Kluwer Academic/Consultants Bureau.

REFERENCE 5: 138:153410 The Aminomethylation of Electron-Rich Aromatics with an N-Silyl-N,O-Acetal Catalyzed by a Metal Triflate-TMSCl System: Facile Synthesis of Aromatic Primary Amines, 1-Aryl-trichloroethylamines. Sakai, Norio; Hirasawa, Maki; Hamajima, Toshihiro; Konakahara, Takeo (Department of Pure and Applied Chemistry, Faculty of Science and Technology, Tokyo University of Science, Chiba, 278-8510, Japan). Journal of Organic Chemistry, 68(2), 483-488 (English) 2003. CODEN: JOCEAH. ISSN: 0022-3263. Publisher: American Chemical Society.

REFERENCE 6: 138:153114 Synthesis of 1-amino-2-methylindoline by Raschig process: parallel reactions, modeling, and optimization. Elkhathib, M.; Peyrot, L.; Metz, R.; Tenu, R.; Elomar, F.; Delalu, H. (Laboratoire Hydrazines et Procédés, FRE CNRS 2397, Université Claude Bernard Lyon 1, Villeurbanne, F-69622, Fr.). International Journal of Chemical Kinetics, 34(10), 575-584 (English) 2002. CODEN: IJCKBO. ISSN: 0538-8066. Publisher: John Wiley & Sons, Inc..

REFERENCE 7: 138:122656 Preparation of thieno[2,3-d]pyrimidinediones as immunosuppressants for treatment of obstructive airway disease. Reynolds, Rachel Heulwen; Ingall, Anthony Howard (Astrazeneca Ab, Swed.; Astrazeneca Uk Limited). PCT Int. Appl. WO 2003008422 A1 20030130, 95 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-GB3250 20020716. PRIORITY: GB 2001-17583 20010719.

REFERENCE 8: 138:122515 InCl₃-catalyzed alkylation of indoles with epoxides.

Searched by: Mary Hale 308-4258 CM-1 1E01

Yadav, J. S.; Reddy, B. V. S.; Abraham, Sunny; Sabitha, G. (Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad, 500 007, India). Synlett (9), 1550-1552 (English) 2002. CODEN: SYNLES. ISSN: 0936-5214. Publisher: Georg Thieme Verlag.

REFERENCE 9: 138:106601 Preparation of substituted anilinic piperidines as MCH selective antagonists. Marzabadi, Mohammad R.; Wetzel, John; Deleon, John E.; Jiang, Yu (Synaptic Pharmaceutical Corporation, USA). PCT Int. Appl. WO 2003004027 A1 20030116, 771 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US21063 20020703. PRIORITY: US 2001-899794 20010705; US 2002-42582 20020109.

REFERENCE 10: 138:97248 Oxidation of simple indoles at a platinum anode. Keech, Peter G.; Chartrand, Michelle M. G.; Bunce, Nigel J. (Electrochemical Technology Centre, Department of Chemistry and Biochemistry, University of Guelph, Guelph, ON, N1G 2W1, Can.). Journal of Electroanalytical Chemistry, 534(1), 75-78 (English) 2002. CODEN: JECHES. Publisher: Elsevier Science B.V..

L8 ANSWER 35 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 93-10-7 REGISTRY

CN 2-Quinolinecarboxylic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Quinaldic acid (8CI)

OTHER NAMES:

CN 2-Carboxyquinoline

CN 2-Quinolinylcarboxylic acid

CN Quinaldinic acid

FS 3D CONCORD

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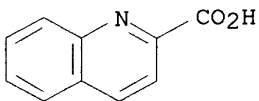
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DDFU, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

692 REFERENCES IN FILE CA (1962 TO DATE)

27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

692 REFERENCES IN FILE CAPLUS (1962 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 1E01

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

- REFERENCE 1: 138:214424 Mixed ligand complexes of Rb and Cs metal salts of some organic acids with quinaldinic acid. Prakash, Dharm; Mehra, R. K.; Gupta, Anju K.; Yadav, Ashok Kumar (Department of Chemistry, Patna University, Patna, 800 005, India). Oriental Journal of Chemistry, 18(2), 347-350 (English) 2002. CODEN: OJCHEG. ISSN: 0970-020X. Publisher: Oriental Scientific Publishing Co..
- REFERENCE 2: 138:214423 Mixed ligand complexes of rubidium and cesium metal salts of some organic acids with 1,10-phenanthroline. Prakash, Dharm; Gupta, Anju K.; Kumar, Surya; Yadav, Ashok Kumar (Department of Chemistry, Patna University, Patna, 800 005, India). Oriental Journal of Chemistry, 18(2), 335-338 (English) 2002. CODEN: OJCHEG. ISSN: 0970-020X. Publisher: Oriental Scientific Publishing Co..
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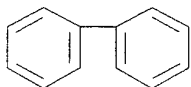
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REFERENCE 10: 138:89600 Synthesis and SAR of azalide 3,6-ketal aromatic derivatives as potent gram-positive and gram-negative antibacterial agents. Cheng, Hengmiao; Dirlam, John P.; Ziegler, Carl B.; Lundy, Kristin M.; Hayashi, Shigeru F.; Kamicker, Barbara J.; Dutra, Jason K.; Daniel, Kirsten L.; Santoro, Sheryl L.; George, David M.; Bertsche, Camilla D.; Sakya, Subas M.; Suarez-Contreras, Melani (Groton Laboratories, Pfizer Global Research and Development, Groton, CT, 06340, USA). Bioorganic & Medicinal Chemistry Letters, 12(17), 2431-2434 (English) 2002. CODEN: BMCLE8. ISSN: 0960-894X. Publisher: Elsevier Science Ltd..

L8 ANSWER 36 OF 38 REGISTRY COPYRIGHT 2003 ACS
RN 92-52-4 REGISTRY
CN 1,1'-Biphenyl (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Biphenyl (8CI)
OTHER NAMES:

Searched by: Mary Hale 308-4258 CM-1 1E01

CN 1,1'-Diphenyl
 CN Bibenzene
 CN Carolid AL
 CN Diphenyl
 CN Phenylbenzene
 CN Tetrosin LY
 FS 3D CONCORD
 DR 56481-93-7, 72931-46-5
 MF C12 H10
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DETHERM*, DIPPR*,
 EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
 NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
 ULIDAT, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

30642 REFERENCES IN FILE CA (1962 TO DATE)
 18863 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 30691 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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- REFERENCE 4: 138:209720 Horizontal and vertical distribution of organic contaminants in deep-sea fish species. Mormede, Sophie; Davies, Ian M. (Marine Laboratory, Fisheries Research Services, Aberdeen, AB11 9DB, UK).

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Chemosphere, Volume Date 2003, 50(4), 563-574 (English) 2002. CODEN: CMSHAF. ISSN: 0045-6535. Publisher: Elsevier Science Ltd..

REFERENCE 5: 138:209713 Concentrations and hazard assessment of PCBs, organochlorine pesticides and mercury in fish species from the Upper Thames: River pollution and its potential effects on top predators. Yamaguchi, N.; Gazzard, D.; Scholey, G.; Macdonald, D. W. (Wildlife Conservation Research Unit, Department of Zoology, Oxford, OX1 3PS, UK). Chemosphere, 50(3), 265-273 (English) 2002. CODEN: CMSHAF. ISSN: 0045-6535. Publisher: Elsevier Science Ltd..

REFERENCE 6: 138:209710 Determination of organohalogenated contaminants in liver of harbour porpoises (*Phocoena phocoena*) stranded on the Belgian North Sea coast. Covaci, A.; Van de Vijver, K.; DeCoen, W.; Das, K.; Bouqueneau, J. M.; Blust, R.; Schepens, P. (Toxicological Center, University of Antwerp, Wilrijk, 2610, Belg.). Marine Pollution Bulletin, 44(10), 1157-1165 (English) 2002. CODEN: MPNBZ. ISSN: 0025-326X. Publisher: Elsevier Science Ltd..

REFERENCE 7: 138:209625 Method and device for removal of electric insulation based on polychlorobiphenyl from a transformer. Gusarov, E. E.; Ovchinnikov, A. N.; Ovchinnikov, K. A. (AOZT "NPO Petrokhim-Tekhnologiya", Russia). Russ. RU 2187858 C1 20020820, No pp. given (Russian). CODEN: RUXXE7. APPLICATION: RU 2000-129383 20001116.

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REFERENCE 10: 138:209518 Reductive dechlorination of polychlorinated biphenyls in landfill leachate. Royal, Carmen L.; Preston, David R.; Sekelsky, Andrew M.; Shreve, Gina S. (Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, MI, 48202, USA). International Biodeterioration & Biodegradation, Volume Date 2003, 51(1), 61-66 (English) 2002. CODEN: IBBIES. ISSN: 0964-8305. Publisher: Elsevier Science Ltd..

L8 ANSWER 37 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN 91-63-4 REGISTRY

CN Quinoline, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Quinaldine (8CI)

OTHER NAMES:

CN 2-Methylquinoline

CN Khinaldin

FS 3D CONCORD

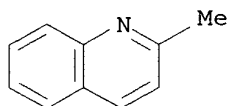
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CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,

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CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*,
 DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
 MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, RTECS*, SPECINFO, SYNTHLINE,
 TOXCENTER, ULIDAT, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1542 REFERENCES IN FILE CA (1962 TO DATE)
 33 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1543 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:146688 Preparation of heterocycle-containing phosphines and corresponding palladium complexes and use thereof in palladium catalyzed coupling reactions. Edwards, Peter Gerald; Fallis, Ian Andrew; Yong, Ben Stuart (Johnson Matthey Public Limited Company, UK). Brit. UK Pat. Appl. GB 2378182 A1 20030205, 25 pp. (English). CODEN: BAXXDU. APPLICATION: GB 2001-18612 20010731.

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REFERENCE 3: 138:130324 Automated storage of gas chromatography-mass spectrometry data in a relational database to facilitate compound screening and identification. Staeb, J. A.; Epema, O. J.; van Duijn, P.; Steevens, J.; Klap, V. A.; Freriks, I. L. (Institute for Inland Water Management and Waste Water Treatment, RIZA, Lelystad, 8200 AA, Neth.). Journal of Chromatography, A, 974(1-2), 223-230 (English) 2002. CODEN: JCRAEY. ISSN: 0021-9673. Publisher: Elsevier Science B.V..

REFERENCE 4: 138:106589 Preparation of quinolines substituted at the 2- or 3-position by an alkenyl or alkynyl chain. Fakhfakh, Mohamed A.; Franck, Xavier; Fournet, Alian; Hocquemiller, Reynald; Figadere, Bruno (Laboratoire de Pharmacognosie, associe au CNRS (BIOCIS), Universite Paris-Sud, Faculte de Pharmacie, Chatenay-Malabry, F-92296, Fr.). Synthetic Communications, 32(18), 2863-2875 (English) 2002. CODEN: SYNCAV. ISSN: 0039-7911. Publisher: Marcel Dekker, Inc..

REFERENCE 5: 138:91388 Absorption spectra, aggregation and photofading behaviour of near-infrared absorbing squarylium dyes containing perimidine moiety. Kim, Sung-Hoon; Kim, Jae-Hong; Cui, Jian-Zhong; Gal, Yeong-Soon; Jin, Sung-Ho; Koh, Kwangnak (Department of Dyeing and Finishing, Kyungpook National University, Taegu, 702-701, S. Korea). Dyes and Pigments, 55(1),

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1-7 (English) 2002. CODEN: DYPIDX. ISSN: 0143-7208. Publisher: Elsevier Science Ltd..

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- REFERENCE 8: 138:55879 Preparation of quinolines and quinolones and their use as cell adhesion inhibitors and cytokine formation inhibitors. Sato, Susumu; Aitani, Kiyoko; Kumakura, Seiichiro (Sankyo Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002371078 A2 20021226, 64 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-176693 20010612.
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- REFERENCE 10: 137:387086 Quinophthalone dye-sensitized solar cell. Ikeda, Masaaki; Shigaki, Koichiro; Inoue, Teruhisa (Nippon Kayaku Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002334729 A2 20021122, 17 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-57108 20020304. PRIORITY: JP 2001-66891 20010309.

L8 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2003 ACS

RN **86-59-9** REGISTRY

CN 8-Quinolinedicarboxylic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8-Carboxyquinoline

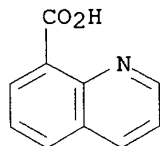
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CI COM

LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MRCK*, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)



Searched by: Mary Hale 308-4258 CM-1 1E01

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

134 REFERENCES IN FILE CA (1962 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
134 REFERENCES IN FILE CAPLUS (1962 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:153556 Method for preparing heteroarylcarboxylic acids via treatment of the corresponding hydroxymethyl compounds with oxygen in the presence of a transition metal catalyst.. Burdeniuc, Juan Jesus (Air Products and Chemicals, Inc., USA). Eur. Pat. Appl. EP 1283202 A1 20030212, 17 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2002-17635 20020806. PRIORITY: US 2001-925239 20010809.

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REFERENCE 3: 138:89803 Preparation of aroylazoles and aroylazines as orexin receptor antagonists. Branch, Clive Leslie; Chan, Wai Ngor; Johns, Amanda; Johnson, Christopher Norbert; Nash, David John; Novelli, Riccardo; Pilleux, Jean-Pierre; Porter, Roderick Alan; Stead, Rachel Elizabeth Anne; Stemp, Geoffrey (SmithKline Beecham P.L.C., UK). PCT Int. Appl. WO 2003002561 A1 20030109, 74 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-EP7009 20020625. PRIORITY: GB 2001-15863 20010628; GB 2001-30342 20011219.

REFERENCE 4: 137:370356 Preparation and use of bombesin receptor antagonists for treatment of sexual dysfunction in males and females. Gonzalez, Maria Isabel; Higginbottom, Michael; Stock, Herman Thijs; Pritchard, Martyn Clive; Pinnock, Robert Denham; Van der Graaf, Pieter Hadewijn; Naylor, Alisdair Mark; Wayman, Christopher Peter (UK). U.S. Pat. Appl. Publ. US 2002169101 A1 20021114, 105 pp., Cont.-in-part of U.S. Pat. Appl. 2002 58,606. (English). CODEN: USXXCO. APPLICATION: US 2001-999284 20011115. PRIORITY: US 1999-PV133355 19990510; WO 2000-GB1787 20000510; US 2000-700165 20001109; US 2001-759777 20010112; GB 2001-9910 20010423; GB 2001-11037 20010504.

REFERENCE 5: 137:154705 Preparation of adamantanols using catalysts containing imides and nitrogen oxides. Ishii, Yasutaka; Nakano, Tatsuya; Tatsumi, Atsuo (Daicel Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002226404 A2 20020814, 18 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-70781 20010313. PRIORITY: JP 2000-361973 20001128.

REFERENCE 6: 137:140338 Preparation of aminoethanol derivatives as

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cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia, etc.. Kori, Masakuni; Hamamura, Kazumasa; Fuse, Hiromitsu; Yamamoto, Toshihiro (Takeda Chemical Industries, Ltd., Japan). PCT Int. Appl. WO 2002059077 A1 20020801, 748 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (Japanese). CODEN: PIXXD2. APPLICATION: WO 2002-JP532 20020125. PRIORITY: JP 2001-19280 20010126.

REFERENCE 7: 137:93771 Preparation of piperazinocarbonyl(iso)quinolines as 5-HT_{2A} receptor antagonists. Boettcher, Henning; Bartoszyk, Gerd; Harting, Juergen; Van Amsterdam, Christoph; Seyfried, Christoph (Merck Patent G.m.b.H., Germany). Ger. Offen. DE 10102053 A1 20020718, 10 pp. (German). CODEN: GWXXBX. APPLICATION: DE 2001-10102053 20010117.

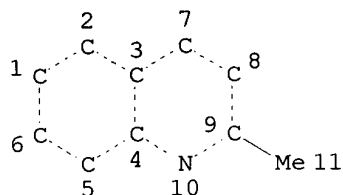
REFERENCE 8: 137:6075 Remarkable effect of nitrogen dioxide for N-hydroxyphthalimide-catalyzed aerobic oxidation of methylquinolines. Sakaguchi, Satoshi; Shibamoto, Akihiro; Ishii, Yasutaka (Department of Applied Chemistry, Faculty of Engineering, Kansai University, Suita, Osaka, 564-8680, Japan). Chemical Communications (Cambridge, United Kingdom) (2), 180-181 (English) 2002. CODEN: CHCOFS. ISSN: 1359-7345. Publisher: Royal Society of Chemistry.

REFERENCE 9: 136:402022 Preparation of (S)-.alpha.-methyltryptophan amide derivatives as bombesin receptor antagonists. Higginbottom, Michael; Pritchard, Martin Clive; Stock, Herman Thijs (Warner-Lambert Company, USA). PCT Int. Appl. WO 2002040469 A1 20020523, 85 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-EP14401 20011116. PRIORITY: GB 2000-28104 20001117.

REFERENCE 10: 136:395983 Bombesin receptor antagonists, and combinations with other agents, for the treatment of sexual dysfunction. Gonzalez, Maria Isabel; Stock, Herman Thijs; Pinnock, Robert Denham; Pritchard, Martyn Clive; Wayman, Christopher Peter; Van der Graaf, Pieter Hadewijn; Naylor, Alisdair Mark; Higginbottom, Michael (Warner-Lambert Company, USA). PCT Int. Appl. WO 2002040008 A2 20020523, 225 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-GB5018 20011114. PRIORITY: WO 2000-GB4380 20001117; GB 2001-9910 20010423; GB 2001-11037 20010504.

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L9 STR



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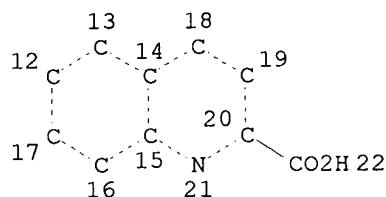
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STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01

26829 ANSWERS

L10 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
L14 1497 SEA FILE=REGISTRY SSS FUL L10

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SEARCH TIME: 00.00.01

1497 ANSWERS

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ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-18.17

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FILE COVERS 1907 - 3 Apr 2003 VOL 138 ISS 14
FILE LAST UPDATED: 2 Apr 2003 (20030402/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

3108 L14
9370 L13
L15 234 L14 AND L13

=> s l15 and (cunningham? or alternar? or absid? or aspergill? or giomerell? or penicill?)

1646 CUNNINGHAM?
5433 ALTERNAR?
739 ABSID?
42177 ASPERGILL?
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62405 PENICILL?
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=> s l15 and pseudomon?

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=> s l16 or l17

L18 7 L16 OR L17

=> d 1-7 cbib abs hitstr

L18 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
2002:294175 Document No. 136:308633 Microbial conversion of bicyclic heteroaromatic compounds. Cawley, James J.; Wong, John W. (USA). U.S. Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-924292 20010808. PRIORITY: US 2000-PV224089 20000809.

AB The present invention relates to processes for the microbial oxidn. of bicyclic heteroarom. compds. which comprise contacting these compds. with a microorganism, or a suitable mutant thereof, and incubating the

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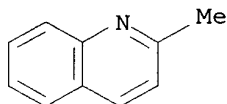
resulting mixt. under conditions sufficient to yield an amt. of their resp. carboxylic acids. The present processes optionally further comprise the isolation and purifn. of the product carboxylic acids. Thus, *Pseudomonas* putida ATCC 33015 converted 3-methylquinoline to 3-quinolinecarboxylic acid with a yield of 9%.

IT 91-63-4

RL: BCP (Biochemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(microbial oxidn. of bicyclic heteroarom. compds.)

RN 91-63-4 CAPLUS

CN Quinoline, 2-methyl- (9CI) (CA INDEX NAME)

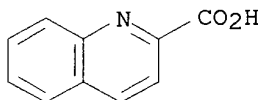


IT 93-10-7P, 2-Quinolinecarboxylic acid

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(microbial oxidn. of bicyclic heteroarom. compds.)

RN 93-10-7 CAPLUS

CN 2-Quinolinecarboxylic acid (9CI) (CA INDEX NAME)

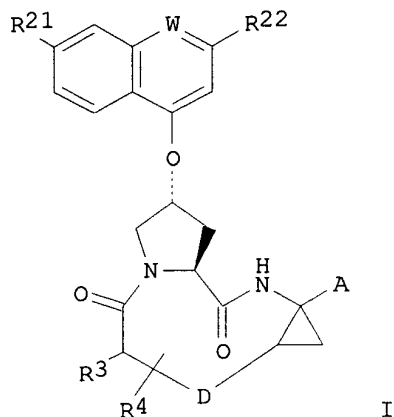


L18 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

2000:725652 Document No. 133:296659 Preparation of macrocyclic peptides active against the hepatitis C virus. Tsantrizos, Youla S.; Cameron, Dale R.; Faucher, Anne-marie; Ghirelli, Elise; Goudreau, Nathalie; Halmos, Teddy; Llinas-brunet, Montse (Boehringer Ingelheim (Canada) Ltd., Can.). PCT Int. Appl. WO 2000059929 A1 20001012, 154 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-CA353 20000403. PRIORITY: US 1999-PV128011 19990406.

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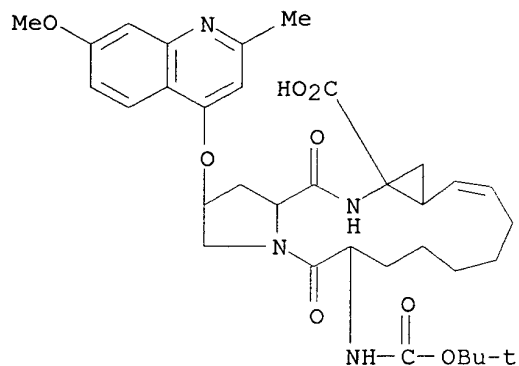
AB Macrocyclic peptides I [W = CH or N; R21 = H, halo, alkyl, cycloalkyl, haloalkyl, alkoxy, cycloalkoxy, hydroxy, or an amino group; R22 = H, halo, alkyl, cycloalkyl, haloalkyl, thioalkyl, alkoxy, cycloalkoxy, alkoxyalkyl, cycloalkyl, aryl or heteroaryl; R3 = hydroxy, NH2, aryl- or heteroarylamino, NHCOR32, CONHR32, CO2R32, where R32 is alkyl or cycloalkyl; D is a 5 to 10-atom satd. or unsatd. alkylene chain optionally contg. one to three heteroatoms independently selected from: O, S, or NH or substituted imino; R4 = H or from one to three substituents at any carbon atom of chain D; A is an amide or carboxylic acid group or a pharmaceutically acceptable salt or ester; two diastereomers may exist at the cyclopropane moiety] were prepd. which are active in-vitro and in cellular assays against the NS3 protease of the hepatitis C virus . Thus, macrocyclic peptide I [W = N; R21, R22, R4 = H; A = CO2H; R3CH-D = (S)-(Me3CO2CNH)CH(CH2)3CH:CH(CH2)2-E (syn to acid)] was prepd. and showed IC50 > 0.1 .mu.M in the full-length NS3-NS4A heterodimer protein fluorogenic assay.

IT **300832-50-2P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of macrocyclic peptides active against the hepatitis C virus)

RN 300832-50-2 CAPLUS

CN Cyclopropa[e]pyrrolo[1,2-a][1,4]diazacyclopentadecine-14a(5H)-carboxylic acid, 6-[[[(1,1-dimethylethoxy)carbonyl]amino]-1,2,3,6,7,8,9,10,11,13a,14,15,16,16a-tetradecahydro-2-[(7-methoxy-2-methyl-4-quinolinyl)oxy]-5,16-dioxo-, (2R,6S,12Z,13aS,14aR,16aS)- (9CI) (CA INDEX NAME)



IT **300831-75-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of macrocyclic peptides active against the hepatitis C virus)

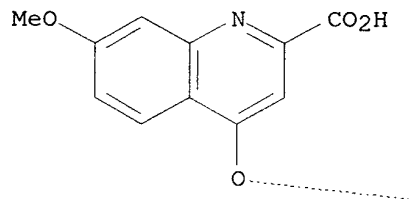
RN 300831-75-8 CAPLUS

CN Cyclopropa[e]pyrrolo[1,2-a][1,4]diazacyclopentadecine-14a(5H)-carboxylic acid, 2-[(2-carboxy-7-methoxy-4-quinolinyl)oxy]-6-[[(cyclopentyloxy)carbonyl]amino]-1,2,3,6,7,8,9,10,11,13a,14,15,16,16a-tetradecahydro-5,16-dioxo-, 14a-methyl ester, monosodium salt, (2R,6S,12Z,13aS,14aR,16aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

PAGE 1-A



1992:400277 Document No. 117:277 Mechanism of allergic cross-reactions. I. Multispecific binding of ligands to a mouse monoclonal anti-DNP IgE antibody. Varga, Janos M.; Kalchschmid, Gertrud; Klein, Georg F.; Fritsch, Peter (Dep. Dermatol., Univ. Innsbruck, Innsbruck, 6020, Austria). Molecular Immunology, 28(6), 641-54 (English) 1991. CODEN: MOIMD5. ISSN: 0161-5890.

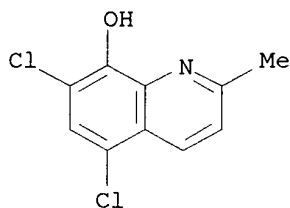
IT 72-80-0, Sterosan 484-11-7, Neocuproin 522-51-0
877-43-0, 2,6-Dimethylquinoline 3811-56-1, Surfen

RL: BIOL (Biological study)

(binding of, to anti-dinitrophenol monoclonal antibody, allergic
cross-reaction mechanism in relation to)

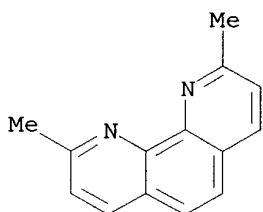
RN 72-80-0 CAPLUS

CN 8-Quinololinol, 5,7-dichloro-2-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



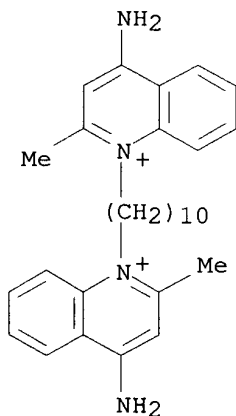
RN 484-11-7 CAPLUS

CN 1,10-Phenanthroline, 2,9-dimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 522-51-0 CAPLUS

CN Quinolinium, 1,1'-(1,10-decanediyl)bis[4-amino-2-methyl-, dichloride (9CI)
(CA INDEX NAME)

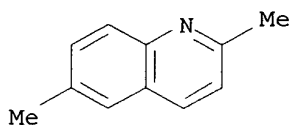


● 2 Cl⁻

RN 877-43-0 CAPLUS

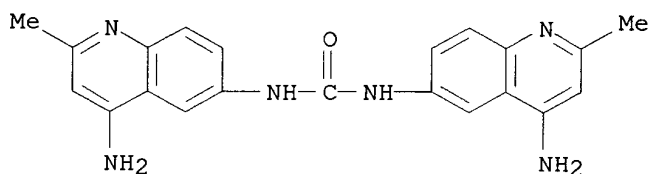
CN Quinoline, 2,6-dimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

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RN 3811-56-1 CAPLUS

CN Urea, N,N'-bis(4-amino-2-methyl-6-quinolinyl)- (9CI) (CA INDEX NAME)



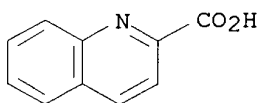
IT 93-10-7, Quinaldinic acid 3684-46-6

RL: BIOL (Biological study)

(binding of, to anti-dinitrophenol monoclonal antibody, allergic cross-reaction mechanisms in relation to)

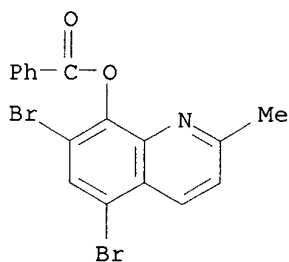
RN 93-10-7 CAPLUS

CN 2-Quinolinecarboxylic acid (9CI) (CA INDEX NAME)



RN 3684-46-6 CAPLUS

CN 8-Quinolinol, 5,7-dibromo-2-methyl-, benzoate (ester) (8CI, 9CI) (CA INDEX NAME)



L18 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

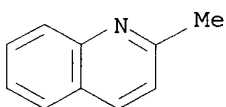
1990:173827 Document No. 112:173827 The structural basis of the mutagenicity of chemicals in Salmonella typhimurium: The Gene-Tox data base. Klopman, Gilles; Frierson, Manton R.; Rosenkranz, Herbert S. (Dep. Chem., Case West. Reserve Univ., Cleveland, OH, 44106, USA). Mutation Research, 228(1), 1-50 (English) 1990. CODEN: MUREAV. ISSN: 0027-5107.

AB The CASE (Computer Automated Structure Evaluation) structure-activity

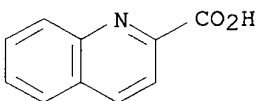
Searched by: Mary Hale 308-4258 CM-1 1E01

methodol. has been applied to a Gene-Tox derived Salmonella mutagenicity data base consisting of 808 chems. Based upon qual. structural features, CASE identified 29 activating and 3 inactivating structural determinants which correctly predicted the probability of carcinogenicity of 93.7% of the known mutagens and nonmutagens in the data base (sensitivity = 0.998, and specificity = 0.704). Addnl., based upon a qual. structure-activity anal., CASE's performance was even better, leading to a sensitivity of 0.981 and a specificity of 1.000. Using the structural determinants identified in this data base, CASE gave excellent predictions of the mutagenicity of chems. not included in the data base. The identified biophores and biophobes can also be used to investigate the structural basis of the mutagenicity of various chem. classes.

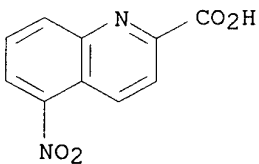
IT 91-63-4, Quinaldine 93-10-7, Quinaldic acid
 525-47-3, 5-Nitroquinaldic acid 826-81-3,
 8-Hydroxy-2-methylquinoline 881-07-2, 8-Nitroquinaldine
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
 (mutagenicity of, Computer Automated Structure Evaluation for study of
 structural determinants in relation to)
 RN 91-63-4 CAPLUS
 CN Quinoline, 2-methyl- (9CI) (CA INDEX NAME)



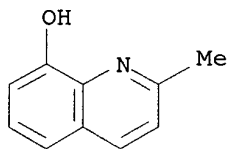
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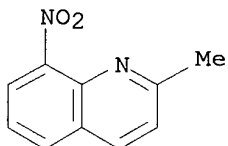
RN 525-47-3 CAPLUS
 CN 2-Quinolinecarboxylic acid, 5-nitro- (9CI) (CA INDEX NAME)



RN 826-81-3 CAPLUS
 CN 8-Quinolinol, 2-methyl- (8CI, 9CI) (CA INDEX NAME)

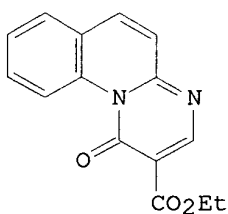


RN 881-07-2 CAPLUS
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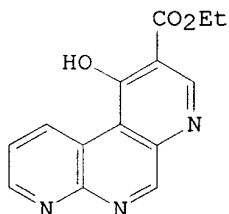


L18 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
 1979:103866 Document No. 90:103866 Syntheses of nitrogen-containing heterocyclic compounds. XXXII. On the antimicrobial activity of diazaphenanthrenes and syntheses of triazaphenanthrenes related to nalidixic acid. Takeuchi, Isao; Ozawa, Isao; Ogaki, Toshiro; Hamada, Yoshiki; Ito, Tomiyoshi (Fac. Pharm., Meijo Univ., Nagoya, Japan). Yakugaku Zasshi, 98(9), 1279-85 (Japanese) 1978. CODEN: YKKZAJ. ISSN: 0031-6903.

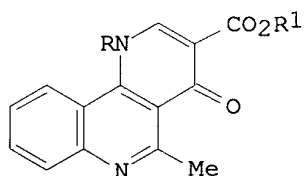
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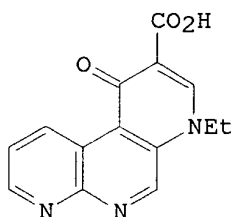


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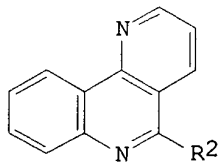


V, R=Me, R¹=H

VI, R=R¹=Et



VII



VIII, R²=Me

IX, R²=CHO

X, R²=CO₂H

Searched by: Mary Hale 308-4258 CM-1 1E01

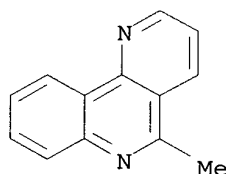
AB 2-Aminoquinoline and 3-amino-1,8-naphthyridine cyclized with EtOCH:C(CO₂Et)₂ to give pyrimidoquinoline I and triazaphenanthrene II, resp. Hydrolysis of I gave 2-aminoquinoline, whereas Et 4-hydroxy-5-methyl-1,6-phenanthroline-3-carboxylate and II gave 4-hydroxy-5-methyl-1,6-phenanthroline-3-carboxylic acid (III) and 4-hydroxy-1,8,9,-triazaphenanthrene-2-carboxylic acid (IV), resp. N-Alkylation of III, the Et ester of III, and IV gave V, VI, and VII, resp. Methylphenanthroline (VIII) was oxidized with SeO₂ to give IX, which was oxidized with H₂O₂ to give X. Bactericidal testing of the prepd. compds. and diazaphenanthrenes showed that these compds. had antibacterial activity against *Pseudomonas aeruginosa*.

IT **34016-27-8**

RL: RCT (Reactant); RACT (Reactant or reagent)
(bactericidal activity and oxidn. of, aldehyde from)

RN 34016-27-8 CAPLUS

CN Benzo[h]-1,6-naphthyridine, 5-methyl- (8CI, 9CI) (CA INDEX NAME)

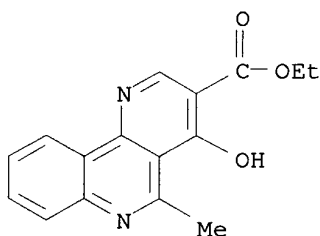


IT **69164-17-6**

RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrolysis and N-alkylation of)

RN 69164-17-6 CAPLUS

CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 4-hydroxy-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



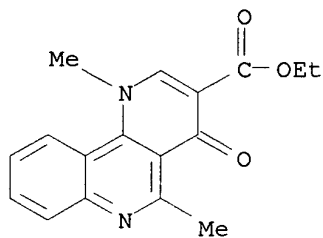
IT **69164-19-8P 69164-20-1P 69164-21-2P**

69164-22-3P 69164-28-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and bactericidal activity of)

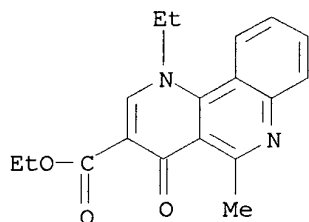
RN 69164-19-8 CAPLUS

CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 1,4-dihydro-1,5-dimethyl-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)



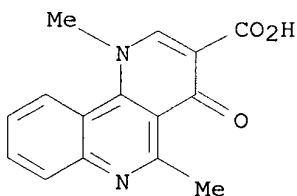
RN 69164-20-1 CAPLUS

CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 1-ethyl-1,4-dihydro-5-methyl-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)



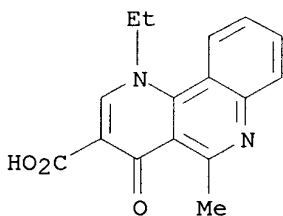
RN 69164-21-2 CAPLUS

CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 1,4-dihydro-1,5-dimethyl-4-oxo- (9CI) (CA INDEX NAME)



RN 69164-22-3 CAPLUS

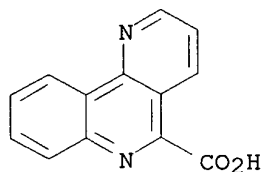
CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 1-ethyl-1,4-dihydro-5-methyl-4-oxo- (9CI) (CA INDEX NAME)



RN 69164-28-9 CAPLUS

CN Benzo[h]-1,6-naphthyridine-5-carboxylic acid (9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 1E01



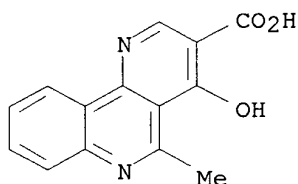
IT **69164-18-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn., N-alkylation, and bactericidal activity of)

RN 69164-18-7 CAPLUS

CN Benzo[h]-1,6-naphthyridine-3-carboxylic acid, 4-hydroxy-5-methyl- (9CI)
(CA INDEX NAME)

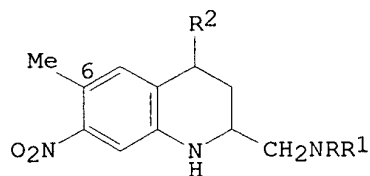


L18 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

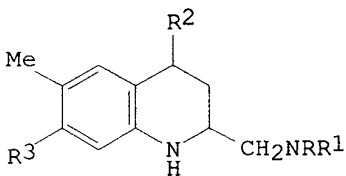
1976:432869 Document No. 85:32869 2-Aminoalkyl tetrahydroquinolines.

Richards, Hugh Colin (Pfizer Inc., USA). U.S. US 3929784 19751230, 35 pp.
(English). CODEN: USXXAM. APPLICATION: US 1974-451980 19740318.

GI



I

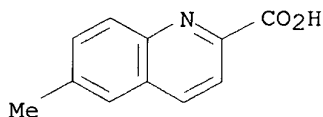


III

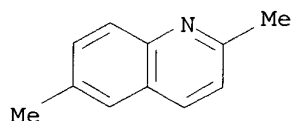
AB The title compds. I [R, R1 = H, alkyl, cycloalkyl; RR1 = CH2CH2OCH2CH2, (CH2)4; R2 = H, Me], useful in the treatment of schistosoma in mice at 50 mg/kg i.p., were prepd. Thus, 6-methyl-2-quinolinecarboxylic acid underwent successive acyl chlorination, amidation with Et2NH, LiAlH4 redn., hydrogenation in the presence of Raney Ni, and nitration to give I (R = R1 = Et; R2 = H). Alternately, I were prepd. via substitution reactions of 2-(chloromethyl)quinolines with RR1NH or via reductive amination of 2-formylquinolines with RR1NH. The C-6 hydroxymethyl analogs (II) of I were obtained by incubation of I with **Aspergillus** sclerotiorum Huber, and the tetrahydroquinolines III (R3 = CN, Br) were prepd. from I via redn. of the nitro group and Sandmeyer reactions of the resultant 7-aminotetrahydroquinolines. III (R3 = Cl) were prepd. via substitution reactions of 7-chloro-6-methyl-2-(halomethyl)quinolines, and III (R3 = F) via reductive amination of 7-fluoro-2-formylquinolines II and III were antischistosomal agents.

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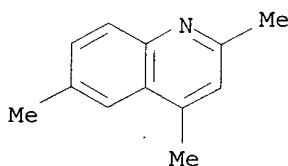
IT 15733-84-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylchlorination-amination of)
RN 15733-84-3 CAPLUS
CN 2-Quinolinecarboxylic acid, 6-methyl- (9CI) (CA INDEX NAME)



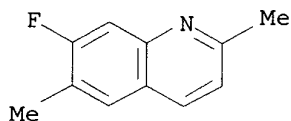
IT 877-43-0 2243-89-2 53425-96-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(chlorination of)
RN 877-43-0 CAPLUS
CN Quinoline, 2,6-dimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 2243-89-2 CAPLUS
CN Quinoline, 2,4,6-trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 53425-96-0 CAPLUS
CN Quinoline, 7-fluoro-2,6-dimethyl- (9CI) (CA INDEX NAME)

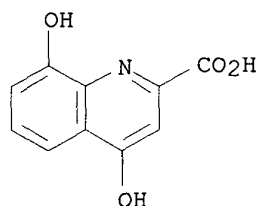


L18 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
1961:98894 Document No. 55:98894 Original Reference No. 55:18552e-g
Supplementary data for the paper-chromatographic separation and
identification of phenol derivatives and related compounds of biochemical
interest, with a "reference system". Reio, L. (Univ. Stockholm). J.
Chromatog., 4, 458-76 (Unavailable) 1960.
AB cf. CA 53, 3349g. Rf values in 6 different solvent systems and
corresponding color reactions produced by 10 standard reagents are

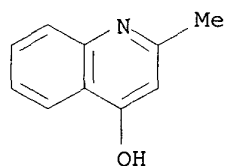
Searched by: Mary Hale 308-4258 CM-1 1E01

tabulated for about 270 mono-, di-, and trihydric phenol derivs., hippuric acid derivs., alkaloids, hydroxylated quinolines, pyridines, and antibiotics of biochem. interest. The data are useful for both sepn. and analysis of these materials.

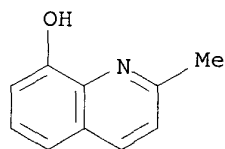
IT 59-00-7, Xanthurenic acid 607-67-0, 4-Quinolinol,
2-methyl- 826-81-3, 8-Quinolinol, 2-methyl-
(chromatography of)
RN 59-00-7 CAPLUS
CN 2-Quinolinecarboxylic acid, 4,8-dihydroxy- (9CI) (CA INDEX NAME)



RN 607-67-0 CAPLUS
CN 4-Quinolinol, 2-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 826-81-3 CAPLUS
CN 8-Quinolinol, 2-methyl- (8CI, 9CI) (CA INDEX NAME)



=> dis his

(FILE 'HOME' ENTERED AT 13:49:32 ON 03 APR 2003)

FILE 'CASREACT' ENTERED AT 13:49:40 ON 03 APR 2003

L1 STR
L2 0 S L1
L3 22 S L1 FUL

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 13:51:44 ON 03 APR 2003

FILE 'CASREACT' ENTERED AT 13:52:47 ON 03 APR 2003

Searched by: Mary Hale 308-4258 CM-1 1E01

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FILE 'CAPLUS' ENTERED AT 13:53:41 ON 03 APR 2003
L4      22 FILE MEDLINE
L5      1 S L4 AND (CUNNINGHAM? OR ALTERNAR? OR ABSID? OR ASPERGILL? OR G
L6      0 S L4 AND MYCOTOX?
L7      5 S L4 AND (ORGANIC SOLVENT OR EXTRACT? OR CHROMATOGRAP? OR PURIF
        SELECT L7 1-5 RN

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L8      38 S E1-38
L9      STR L1
L10     STR L1
L11     50 S L9
L12     50 S L10
L13     26829 S L9 FUL
L14     1497 S L10 FUL

FILE 'CAPLUS' ENTERED AT 13:56:36 ON 03 APR 2003
L15     234 S L14 AND L13
L16     6 S L15 AND (CUNNINGHAM? OR ALTERNAR? OR ABSID? OR ASPERGILL? OR
L17     2 S L15 AND PSEUDOMON?
L18     7 S L16 OR L17

=> s l18 and (organic solvent or extract? or chromatograp? or purif? or mycotox?)
290272 ORGANIC
3347 ORGANICS
292458 ORGANIC
      (ORGANIC OR ORGANICS)
798130 ORG
12291 ORGS
802427 ORG
      (ORG OR ORGS)
893295 ORGANIC
      (ORGANIC OR ORG)
570522 SOLVENT
282505 SOLVENTS
720583 SOLVENT
      (SOLVENT OR SOLVENTS)
121699 ORGANIC SOLVENT
      (ORGANIC(W) SOLVENT)
236068 EXTRACT?
264617 EXT
198041 EXTS
415531 EXT
      (EXT OR EXTS)
319696 EXTD
6 EXTDS
319698 EXTD
      (EXTD OR EXTDS)
43875 EXTG
1 EXTGS
43876 EXTG
      (EXTG OR EXTGS)
338077 EXTN
11648 EXTNS
343051 EXTN
      (EXTN OR EXTNS)
955174 EXTRACT?
      (EXTRACT? OR EXT OR EXTD OR EXTG OR EXTN)
369581 CHROMATOGRAP?
543532 CHROMATOG

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FILE 'WPIDS' ENTERED AT 13:59:13 ON 03 APR 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'EMBASE' ENTERED AT 13:59:13 ON 03 APR 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

'IN' IS NOT A VALID FIELD CODE
L20 208 FILE MEDLINE
L21 223 FILE CAPLUS
L22 236 FILE BIOSIS
L23 14 FILE WPIDS
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L24 149 FILE EMBASE

TOTAL FOR ALL FILES
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L28 2321 FILE BIOSIS
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L30 1763 FILE EMBASE

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L34 1 FILE BIOSIS
L35 2 FILE WPIDS
L36 0 FILE EMBASE

TOTAL FOR ALL FILES
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PROCESSING COMPLETED FOR L37
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L38 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
2002:294175 Document No. 136:308633 Microbial conversion of bicyclic
heteroaromatic compounds. **Cawley, James J.**; Wong, John W.
(USA). U.S. Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp.
(English). CODEN: USXXCO. APPLICATION: US 2001-924292 20010808.
PRIORITY: US 2000-PV224089 20000809.
AB The present invention relates to processes for the microbial oxidn. of
bicyclic heteroarom. compds. which comprise contacting these compds. with
a microorganism, or a suitable mutant thereof, and incubating the
resulting mixt. under conditions sufficient to yield an amt. of their
resp. carboxylic acids. The present processes optionally further comprise
the isolation and purifn. of the product carboxylic acids. Thus,
Pseudomonas putida ATCC 33015 converted 3-methylquinoline to
3-quinolinecarboxylic acid with a yield of 9%.

Searched by: Mary Hale 308-4258 CM-1 1E01

3004 CHROMATOGS
 545708 CHROMATOG
 (CHROMATOG OR CHROMATOXS)
 683592 CHROMATOGRAP?
 (CHROMATOGRAP? OR CHROMATOG)
 689780 PURIF?
 8206 MYCOTOX?
 L19 2 L18 AND (ORGANIC SOLVENT OR EXTRACT? OR CHROMATOGRAP? OR PURIF?
 OR MYCOTOX?)

=> d 1-2 cbib abs

L19 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
 2002:294175 Document No. 136:308633 Microbial conversion of bicyclic
 heteroaromatic compounds. Cawley, James J.; Wong, John W. (USA). U.S.
 Pat. Appl. Publ. US 20020045225 A1 20020418, 14 pp. (English). CODEN:
 USXXCO. APPLICATION: US 2001-924292 20010808. PRIORITY: US 2000-PV224089
 20000809.

AB The present invention relates to processes for the microbial oxidn. of
 bicyclic heteroarom. compds. which comprise contacting these compds. with
 a microorganism, or a suitable mutant thereof, and incubating the
 resulting mixt. under conditions sufficient to yield an amt. of their
 resp. carboxylic acids. The present processes optionally further comprise
 the isolation and purifn. of the product carboxylic acids.
 Thus, *Pseudomonas putida* ATCC 33015 converted 3-methylquinoline
 to 3-quinolinecarboxylic acid with a yield of 9%.

L19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
 1961:98894 Document No. 55:98894 Original Reference No. 55:18552e-g
 Supplementary data for the paper-**chromatographic** separation and
 identification of phenol derivatives and related compounds of biochemical
 interest, with a "reference system". Reio, L. (Univ. Stockholm). J.
 Chromatog., 4, 458-76 (Unavailable) 1960.
 AB cf. CA 53, 3349g. Rf values in 6 different solvent systems and
 corresponding color reactions produced by 10 standard reagents are
 tabulated for about 270 mono-, di-, and trihydric phenol derivs., hippuric
 acid derivs., alkaloids, hydroxylated quinolines, pyridines, and
 antibiotics of biochem. interest. The data are useful for both sepn. and
 analysis of these materials.

=> fil medl,caplus,biosis,wpids,embase;s cawley, j?/au,in;s wong, j?/au,in		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	60.64	693.42
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.86	-24.03

FILE 'MEDLINE' ENTERED AT 13:59:13 ON 03 APR 2003

FILE 'CAPLUS' ENTERED AT 13:59:13 ON 03 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 13:59:13 ON 03 APR 2003
 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

Searched by: Mary Hale 308-4258 CM-1 1E01

The typical time course of TMC-120s production in a 30-liter jar is shown in Fig. 2. The pH and packed volume (PCV) gradually increased from the initiation of the fermentation to 120 hours. The glucose concentration was gradually decreased, and reached 0.4 mg/ml at 120 hours. Compound 2 was produced in the earth stage of the fermentation, followed by the production of 1 and 3. The maximum production of 2, 1, and 3 was observed at 48, 72, and 120 hours, respectively, suggesting that 1 and 3 were derived from 2 by biological or chemical transformation. The total production of 1, 2 and 3 reached the maximum at 72 hours.

The isolation procedure for TMC-120s is summarized in Fig. 3. The fermentation broth of *Aspergillus ustus* was extracted with 1-butanol, and the extract was purified by solvent partition and repeated column chromatography. Finally, compounds 2 and 3 were recrystallized with organic solvents to afford needles. The structure determination has been reported in a separate paper.⁽⁶⁾

In order to obtain a preliminary information on structure-activity relationships, 2 was reduced with sodium borohydride, giving two diastereomers, 4 (*E* isomer) and 5 (*Z* isomer). Structures of 4 and 5 were determined by comparison of ^1H and ^{13}C NMR data with those of 1, together with the NOESY experiments of 4 and 5 as shown in Fig. 4.

Fig. 2. Time course of TMC-120s production.

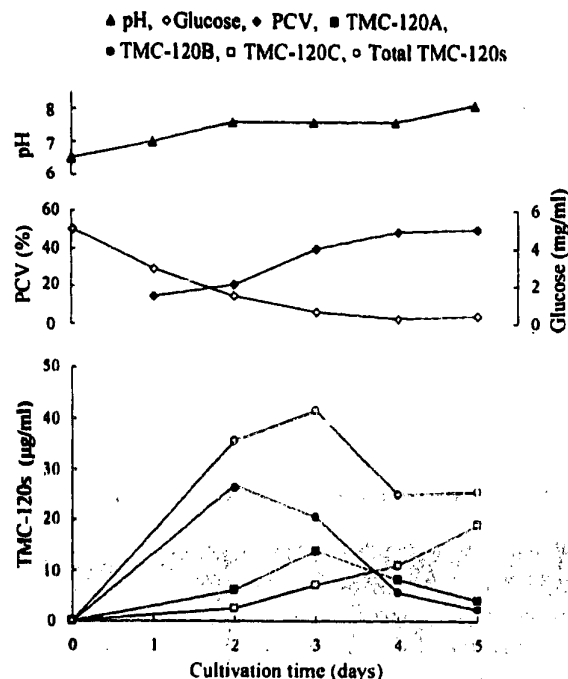


Fig. 3. Isolation and purification procedure for TMC-120A (1), B (2) and C (3).

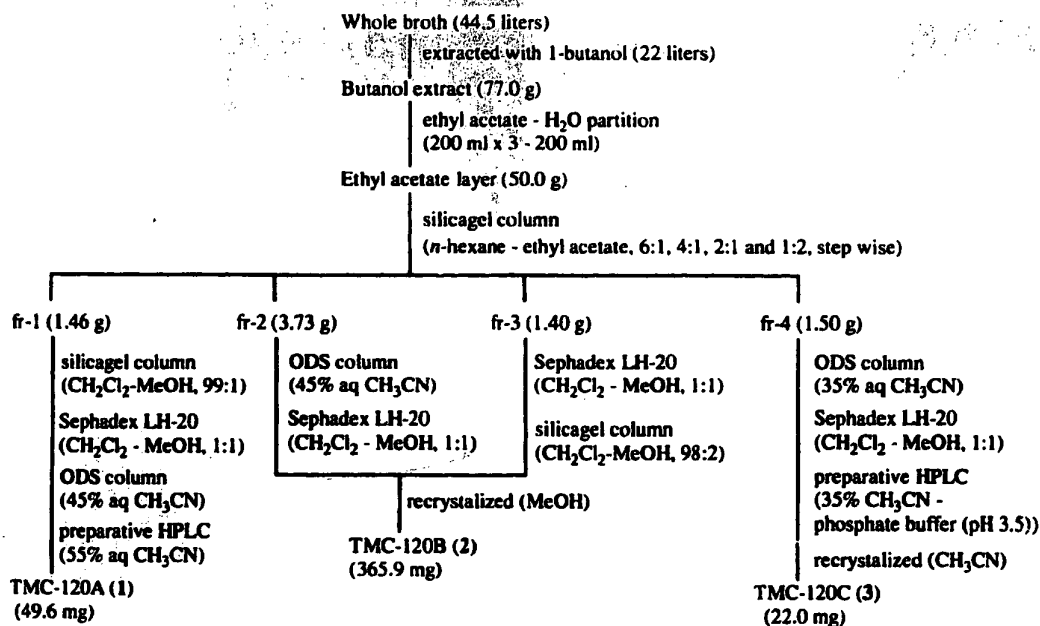


Fig. 4. The NOESY experiments of 4 and 5.

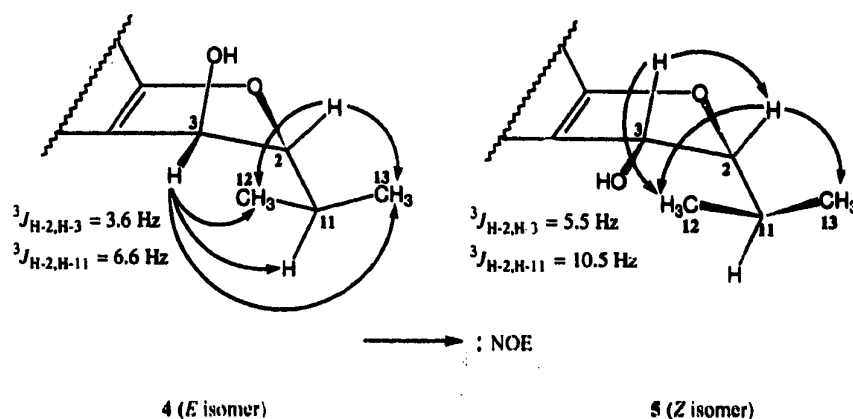


Table 1. Inhibitory effects of 1~5 on the survival of guinea pig peritoneal eosinophils.

IC ₅₀ (μM)				
1	2	3	4	5
13.7	2.0	> 39	> 41	> 41

TMC-120B (2) showed moderate inhibitory activity against the IL-5 mediated prolongation of eosinophil survival (IC₅₀=2.0 μM), but 1, 3, 4 and 5 which are reductive analogs of 2, were less active than 2 or inactive (Table 1). These results suggested that the α,β-unsaturated ketone of 2 played an important role for the activity, involving the alkylation of biological nucleophiles in a MICHAEL-type addition. TMC-120B showed no cytotoxicity against human leukemia HL-60 at the concentration of 42 μM.

Experimental

Microorganism

The producing fungal strain TC 1118 was isolated from rhizosphere of grass collected in Kawaguchi-shi, Saitama, Japan. It was identified as *Aspergillus ustus* (Bain.) Thom & Church on the basis of the following distinct

characteristics: dull gray conidial area, yellow reverse side of colonies, small vesicles of 6~18 μm in diameter, long brownish stipes, and globose to subglobose, rough-walled conidia of 4.0~5.5×2.5~3.0 μm from biserial aspergilla.

Fermentation

Seed and production medium contained glucose 0.5%, glycerol 2.0%, soybean meal 2.0%, yeast extract 0.2%, CaCO₃ 0.4% and NaCl 0.25% (pH 6.5). Growth of the organism was evaluated as packed cell volume (PCV) by centrifuging the fermentation broth. The PCV was recorded as % of total broth volume. The production of TMC-120s during the fermentation, was analyzed by HPLC of the 1-butanol extract of the fermentation broth.

HPLC Analysis

Analytical HPLC was carried out on a Hewlett-Packard HP-1090 equipped with a diode array detector. The conditions for HPLC analysis were as follows; column: YMC-Pack ODS-AM AM-301-3 (4.6×100 mm), mobile phase: 55% aq CH₃CN, flow rate: 1.2 ml/minute, detection: UV at 254 nm. Under these conditions, TMC-120A, B and C eluted at 3.9, 4.2 and 2.1 minutes, respectively.

Reduction of 2 with Sodium Borohydride

To a solution of 2 (39.1 mg, 0.164 mmol) in ethanol (20 ml), sodium borohydride (7.8 mg, 0.206 mmol) was added. After stirring at room temperature for 5 hours, the reaction mixture was neutralized by addition of 1 N HCl. The resulting mixture was concentrated and purified by

preparative HPLC (50% aqueous CH_3CN) to separate 4 and 5, which were further purified by a Sephadex LH-20 column (22×440 mm) with $\text{CH}_2\text{Cl}_2/\text{MeOH}$ (1:1) to yield 4 (7.6 mg, 19.1%) and 5 (16.1 mg, 40.4%), respectively.

4: Pale yellow solid; UV λ_{max} (log ϵ): 344 (3.72), 305 (3.50), 293 (sh, 3.46), 241 (4.22), 225 (4.38), 210 (4.49) nm; IR ν_{max} : 3350–3200, 2955, 2920, 2870, 1640, 1570, 1460, 1425, 1385, 1375, 1355, 1270, 1160, 1080, 985 cm^{-1} ; ESI-MS (positive) m/z : 244 ($\text{M}+\text{H}$)⁺, 226 ($\text{M}+\text{H}-\text{H}_2\text{O}$)⁺, 210, 188, 173; ESI-MS (negative) m/z : 242 ($\text{M}-\text{H}$)⁻; HRESI-MS m/z found 242.1147 ($\text{M}-\text{H}$)⁻, calcd. for $\text{C}_{13}\text{H}_{16}\text{NO}_2$: 242.1181; ¹H NMR in CDCl_3 : δ (ppm): 9.28 (s, H-9); 7.60 (d, 8.5 Hz, H-4); 7.39 (s, H-6); 7.21 (d, 8.5 Hz, H-5); 5.26 (d, 3.6 Hz, H-3); 4.52 (dd, 6.6 Hz, 3.6 Hz, H-2); 2.65 (s, H-10); 2.03 (m, H-11); 1.07 and 1.06 (d, 6.7 Hz, H-13 and 12); ¹³C NMR in CDCl_3 : δ (ppm): 157.0 (s, C-9b); 152.5 (s, C-7); 146.8 (d, C-9); 138.5 (s, C-5a); 127.4 (d, C-4); 122.4 (s, C-3a); 118.6 (d, C-6); 118.3 (d, C-5); 114.5 (s, C-9a); 97.9 (d, C-2); 75.5 (d, C-3); 31.5 (d, C-11); 24.2 (q, C-10); 17.7 and 17.6 (q, C-13 and 12).

5: Pale yellow solid; UV λ_{max} (log ϵ): 343 (3.79), 305 (3.53), 293 (sh, 3.48), 241 (4.29), 225 (4.47), 210 (4.57) nm; IR ν_{max} : 3200, 2950, 2870, 1640, 1570, 1425, 1385, 1350, 1280, 1265, 1255, 1170, 1160, 1125, 1085, 1065, 1000, 940 cm^{-1} ; ESI-MS (positive) m/z : 244 ($\text{M}+\text{H}$)⁺, 226 ($\text{M}+\text{H}-\text{H}_2\text{O}$)⁺, 210, 188, 173; ESI-MS (negative) m/z : 242 ($\text{M}-\text{H}$)⁻; HRESI-MS m/z found 242.1155 ($\text{M}-\text{H}$)⁻, calcd. for $\text{C}_{13}\text{H}_{16}\text{NO}_2$: 242.1181; ¹H NMR in CDCl_3 : δ (ppm): 9.19 (s, H-9); 7.66 (d, 8.3 Hz, H-4); 7.20 (s, H-6); 7.07 (d, 8.3 Hz, H-5); 5.22 (d, 5.5 Hz, H-3); 4.20 (dd, 10.5 Hz, 5.5 Hz, H-2); 2.54 (s, H-10); 2.54 (m, H-11); 1.40 and 1.24 (d, 6.6 Hz, H-13 and 12); ¹³C NMR in CDCl_3 : δ (ppm): 157.0 (s, C-9b); 151.0 (s, C-7); 145.9 (d, C-9); 138.2 (s, C-5a); 128.5 (d, C-4); 124.3 (s, C-3a); 118.8 (d, C-6); 118.0 (d, C-5); 114.1 (s, C-9a); 95.0 (d, C-2); 72.1 (d, C-3); 27.6 (d, C-11); 23.3 (q, C-10); 19.9 and 19.5 (q, C-13 and 12).

Measurement of Eosinophil Survival

Eosinophils were obtained from peritoneal lavage fluid

of guinea pigs sensitized with polymixin B. The cells were purified by centrifuge on a discontinuous Percoll density gradient. The purified eosinophils (>90% purity, $7.5 \times 10^3/\text{well}$) were suspended in 100 μl of RPMI-1640 medium containing 5% (v/v) fetal calf serum, recombinant IL-5 (0.1 ng/ml) and various concentrations of drugs, and incubated at 37°C for 5 days in a humidified atmosphere containing 5% CO_2 . The drugs were dissolved in DMSO and added to the medium. The final concentration of DMSO was adjusted to 0.1% (v/v). The control medium contained the same amount of DMSO. After incubation, the cells were washed with PBS and the viability of the cells were determined by their ability to take up fluorescein diacetate.

References

- 1) GIECH, G. J.: The eosinophil and bronchial asthma: Current understanding. *J. Allergy Clin. Immunol.* 85: 422–436, 1990
- 2) WHEELER, P. E.: The immunobiology of eosinophils. *N. Engl. J. Med.* 324: 1110–1118, 1991
- 3) HER, E.; J. FRAZER, K. E. AUSTEN & W. F. OWEN, Jr.: Eosinophil hematopoietins antagonize the programmed cell death of eosinophils. Cytokine and glucocorticoid effects on eosinophils maintained by endothelial cell-conditioned medium. *J. Clin. Invest.* 88: 1982–1987, 1991
- 4) ROTHENBERG, M. E.; W. F. OWEN, Jr., D. S. SILBERSTEIN, J. WOODS, R. J. SOBERMAN, K. E. AUSTEN & R. L. STEVENS: Human eosinophils have prolonged survival, enhanced functional properties, and become hypodense when exposed to human interleukin 3. *J. Clin. Invest.* 81: 1986–1992, 1988
- 5) YAMAGUCHI, Y.; T. SUDA, S. OHYA, K. TOMINAGA, Y. MIURA & T. KASAHARA: Analysis of the survival of mature human eosinophils: interleukin-5 prevents apoptosis in mature human eosinophils. *Blood* 78: 2542–2547, 1991
- 6) KOHNO, J.; H. HIRAMATSU, M. NISHIO, M. SAKURAI, T. OKUDA & S. KOMATSUBARA: Structures of TMC-120A, B and C, novel isoquinoline alkaloids from *Aspergillus ustus* TC 1118. *Tetrahedron* 55: 11247–11252, 1999

WEST Search History

DATE: Thursday, April 03, 2003

Set Name Query

side by side

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DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L47	L40 and L42	0	L47
L46	L40 and L43	1	L46
L45	L29 and L43	1	L45
L44	L29 and L42	0	L44
L43	L28 and L31	11	L43
L42	L28 and L30	2	L42
L41	L29 and L30	0	L41
L40	L29 and L31	1	L40
L39	L29 and L32	0	L39
L38	L29 and L33	0	L38
L37	L29 and L34	0	L37
L36	L29 and L35	0	L36
L35	L30 and L32	4513	L35
L34	L30 and L31	4906	L34
L33	L31 and L32	22594	L33
L32	Microbial or fungal or bacterial or biological	138265	L32
L31	(Production or synthesis or tansformatioun or bioconversion)	1297801	L31
L30	absidia or Alternaria or Aspergillus or Cunninghamella or Giumerella or Penicillium or Pseudomonas	18392	L30
L29	(methylquinoxaline same carboxylic acid) or (2-methylquinoxaline same carboxylic acid)	5	L29
L28	methylquinoxaline or 2-methylquinoxaline	57	L28
L27	((methylquinoxaline/)!.IPC. (2-methylquinoxaline/)!.IPC. (or/)!.IPC.))	0	L27
L26	((methylquinoxaline/)!.IPC. (2-methylquinoxaline/)!.IPC. (or/)!.IPC.)	0	L26

DB=USPT,PGPB; PLUR=YES; OP=ADJ

L25	L16 and L22	0	L25
L24	L16 and L17	0	L24
L23	L17 and L22	0	L23
L22	L18 and L21	4	L22
L21	L19 and L20	29	L21
L20	((435/254.5)!.CCLS.))	55	L20
L19	((435/254.3)!.CCLS.))	215	L19

L18	(((435/254.1)!CCLS.))	634	L18
L17	(((435/243)!CCLS.))	1073	L17
L16	((435/117)!CCLS.)	138	L16
L15	L9 and L13	2	L15
L14	L5 and L7	2	L14
L13	L2 and L7	20	L13
L12	L7 and L11	2	L12
L11	L9 and L10	17	L11
L10	L6 and L8	17	L10
L9	L5 and L8	17	L9
L8	(Production or synthesis or tansformatiuon or bioconversion)	850341	L8
L7	absidia or Alternaria or Aspergillus or Cunninghamella or Giumerella or Penicillium or Pseudomonas	33568	L7
L6	L2 and L5	18	L6
L5	(methylquinoxaline same carboxylic acid) or (2-methylquinoxaline same carboxylic acid)	18	L5
L4	methylquinoxaline carboxylic acid or 2-methylquinoxaline carboxylic acid	0	L4
L3	methylquinoxaline n5 carboxylic acid or 2-methylquinoxaline carboxylic acid	0	L3
L2	methylquinoxaline or 2-methylquinoxaline	295	L2
L1	methylquinoxaline	295	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 2 of 2 returned.**☒ 1. Document ID: JP 2000270889 A

L42: Entry 1 of 2

File: JPAB

Oct 3, 2000

PUB-NO: JP02000270889A

DOCUMENT-IDENTIFIER: JP 2000270889 A

TITLE: OXIDATION OF 2-METHYLQUINOXALINE USING MICROORGANISM

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☒ 2. Document ID: JP 3310254 B2 EP 1028164 A1 AU 200016396 A CA 2298427 A1 JP 2000270889 A HU 200000625 A2 CN 1273276 A CZ 200000512 A3 KR 2000076650 A BR 200000375 A ZA 200000669 A MX 2000001608 A1 US 6361979 B1

L42: Entry 2 of 2

File: DWPI

Aug 5, 2002

DERWENT-ACC-NO: 2000-500334

DERWENT-WEEK: 200258

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TITLE: Novel method for microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid comprises contacting the microorganisms with an inducer prior to oxidative incubation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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Term	Documents
(28 AND 30).JPAB,EPAB,DWPI.	2
(L28 AND L30).JPAB,EPAB,DWPI.	2

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FILE 'HOME' ENTERED AT 16:54:16 ON 03 APR 2003

=> file reg

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FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:54:24 ON 03 APR 2003

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DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e 2-methylquinoxaline/cn

E1	1	2-METHYLQUINOLIZINIUM PICRATE/CN
E2	1	2-METHYLQUINONE/CN
E3	1 -->	2-METHYLQUINOXALINE/CN
E4	1	2-METHYLQUINOXALINE 1,4-DIOXIDE/CN
E5	1	2-METHYLQUINOXALINE 1-OXIDE/CN
E6	1	2-METHYLQUINOXALINE 4-OXIDE/CN
E7	1	2-METHYLQUINOXALINE DI-N-OXIDE/CN
E8	1	2-METHYLQUINOXALINE ION(1-)/CN
E9	1	2-METHYLQUINOXALINE N,N'-DIOXIDE/CN
E10	1	2-METHYLQUINUCLIDINE/CN
E11	1	2-METHYLRESORCIN/CN
E12	1	2-METHYLRESORCINOL/CN

=> s e3

L1 1 2-METHYLQUINOXALINE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 7251-61-8 REGISTRY

CN Quinoxaline, 2-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN ***2-Methylquinoxaline***

FS 3D CONCORD

DR 139257-48-0

MF C9 H8 N2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, EMBASE, GMELIN*, HODOC*,
IFICDB, IFIPAT, IFIUDB, MEDLINE, NAPRALERT, RTECS*, SPECINFO, TOXCENTER,
USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

/ Structure 1 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

223 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
223 REFERENCES IN FILE CAPLUS (1962 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 2-methylquinoline/cn

E1 1 2-METHYLQUINIZARIN/CN
E2 1 2-METHYLQUINOL NONAPRENYLTRANSFERASE/CN
E3 1 --> 2-METHYLQUINOLINE/CN
E4 1 2-METHYLQUINOLINE 1-OXIDE/CN
E5 1 2-METHYLQUINOLINE CARBANION/CN
E6 1 2-METHYLQUINOLINE COMPOUND WITH IODINE (1:1)/CN
E7 1 2-METHYLQUINOLINE CONJUGATE ACID/CN
E8 1 2-METHYLQUINOLINE ETHIODIDE/CN
E9 1 2-METHYLQUINOLINE ION(1-)/CN
E10 1 2-METHYLQUINOLINE METHIODIDE/CN
E11 1 2-METHYLQUINOLINE N-OXIDE/CN
E12 1 2-METHYLQUINOLINE N-OXIDE CARBANION/CN

=> s e3

L2 1 2-METHYLQUINOLINE/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 91-63-4 REGISTRY

CN Quinoline, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Quinaldine (8CI)

OTHER NAMES:

CN ***2-Methylquinoline***

CN Khinaldin

FS 3D CONCORD

MF C10 H9 N

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*,
DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, RTECS*, SPECINFO, SYNTHLINE,
TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

/ Structure 2 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1542 REFERENCES IN FILE CA (1962 TO DATE)
33 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1543 REFERENCES IN FILE CAPLUS (1962 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> set expand cont

SET COMMAND COMPLETED

=> sel name 12
E13 THROUGH E15 ASSIGNED

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:56:30 ON 03 APR 2003

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=> file reg
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.55	14.45

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2
DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e 2-methylquinolinic acid/cn

E16	1	2-METHYLQUINOLINE-5,8-DIONE/CN
E17	1	2-METHYLQUINOLINE-8-CARBOXYLIC ACID/CN
E18	0 -->	2-METHYLQUINOLINIC ACID/CN
E19	1	2-METHYLQUINOLINIUM/CN
E20	1	2-METHYLQUINOLINIUM FLUOROTRIOXOCHROMATE(1-)/CN
E21	1	2-METHYLQUINOLINIUM METHIODIDE/CN
E22	1	2-METHYLQUINOLIZINIUM BROMIDE/CN
E23	1	2-METHYLQUINOLIZINIUM BROMIODATE(I)/CN
E24	1	2-METHYLQUINOLIZINIUM PERCHLORATE/CN
E25	1	2-METHYLQUINOLIZINIUM PICRATE/CN
E26	1	2-METHYLQUINONE/CN
E27	1	2-METHYLQUINOXALINE/CN

=> e 2-quinolinic acid/cn

E28	1	2-QUINOLINEVALERIC ACID, .DELTA.-OXO-, ETHYL ESTER/CN
E29	1	2-QUINOLINEVALERIC ACID, .DELTA.-OXO-, METHYL ESTER/CN
E30	0 -->	2-QUINOLINIC ACID/CN
E31	2	2-QUINOLINOL/CN
E32	1	2-QUINOLINOL, 1,2,3,4-TETRAHYDRO-, BENZOATE (ESTER)/CN
E33	1	2-QUINOLINOL, 1,2,3,4-TETRAHYDRO-2-METHYL-/CN
E34	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-/CN
E35	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-3-NITRO-/CN
E36	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-5-(NITROSOAMINO)-, (E)-/C N
E37	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-5-NITRO-/CN
E38	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-6-NITRO-/CN
E39	1	2-QUINOLINOL, 1,2-DIHYDRO-1-METHYL-7-NITRO-/CN

=> e 2-quinolinecarboxylic acid/cn

E40 1 2-QUINOLINECARBOXIMIDOYL CHLORIDE, N-(BENZOYL)Y)-/CN
 E41 1 2-QUINOLINECARBOXYAMIDE 1-OXIDE/CN
 E42 1 --> 2-QUINOLINECARBOXYLIC ACID/CN
 E43 1 2-QUINOLINECARBOXYLIC ACID, ((1,3-DIPHENYL-1H-PYRAZOL-4-YL)METHYLENE)HYDRAZIDE/CN
 E44 1 2-QUINOLINECARBOXYLIC ACID, ((1-(4-NITROPHENYL)-3-PHENYL-1H-PYRAZOL-4-YL)METHYLENE)HYDRAZIDE/CN
 E45 1 2-QUINOLINECARBOXYLIC ACID, ((10-CHLORO-9-ANTHRACENYL)METHYLENE)HYDRAZIDE/CN
 E46 1 2-QUINOLINECARBOXYLIC ACID, ((1S,3AS,4R,7R,9R,10R,11R,13R,15R,15AR,18R)-4-ETHYL-3A,4,6,7,8,9,10,11,12,13,15,15A-DODECAHYDRO-11-METHOXY-3A,7,9,11,13,15-HEXAMETHYL-2,6,8-TRIOXO-10-((3,4,6-TRIDEOXY-3-(DI/CN
 E47 1 2-QUINOLINECARBOXYLIC ACID, ((2,2-DICHLORO-1-PHENYLCYCLOPROPYL)METHYLENE)HYDRAZIDE/CN
 E48 1 2-QUINOLINECARBOXYLIC ACID, ((2,3,4-TRIMETHOXYPHENYL)METHYLENE)HYDRAZIDE/CN
 E49 1 2-QUINOLINECARBOXYLIC ACID, ((2,3,5,6-TETRAMETHYLPHENYL)METHYLENE)HYDRAZIDE/CN
 E50 1 2-QUINOLINECARBOXYLIC ACID, ((2,3-DICHLOROPHENYL)METHYLENE)HYDRAZIDE/CN
 E51 1 2-QUINOLINECARBOXYLIC ACID, ((2,3-DIHYDRO-1,4-BENZODIOXIN-6-YL)METHYLENE)HYDRAZIDE/CN

=> s e42

L3 1 "2-QUINOLINECARBOXYLIC ACID"/CN

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 93-10-7 REGISTRY

CN ***2-Quinolinedicarboxylic acid (9CI)*** (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Quinaldic acid (8CI)

OTHER NAMES:

CN 2-Carboxyquinoline

CN 2-Quinolinyldicarboxylic acid

CN Quinaldinic acid

FS 3D CONCORD

MF C10 H7 N O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

/ Structure 3 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

692 REFERENCES IN FILE CA (1962 TO DATE)

27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

692 REFERENCES IN FILE CAPLUS (1962 TO DATE)

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> sel name l3

E52 THROUGH E56 ASSIGNED

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.79	22.24

FULL ESTIMATED COST

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1 FILE ANABSTR
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2 FILE BIOTECHABS
2 FILE BIOTECHDS
13 FILES SEARCHED...
89 FILE CAPLUS
1 FILE CIN
22 FILES SEARCHED...
24 FILES SEARCHED...
5 FILE EMBASE
32 FILES SEARCHED...
37 FILES SEARCHED...
2 FILE IFIPAT
44 FILES SEARCHED...
5 FILE MEDLINE
1 FILE PASCAL
51 FILES SEARCHED...
1 FILE SCISEARCH
1 FILE SYNTHLINE
9 FILE TOXCENTER
60 FILES SEARCHED...
28 FILE USPATFULL
61 FILES SEARCHED...
1 FILE USPAT2
5 FILE WPIDS
65 FILES SEARCHED...
5 FILE WPINDEX
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50 68060
51 59040
51 62473

17 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L4 QUE (KHINALDIN/BI OR QUINALDINE/BI OR 2-METHYLQUINOLINE/BI) AND ("QUINALDI
C ACID"/BI OR "QUINALDINIC ACID"/BI OR 2-CARBOXYQUINOLINE/BI OR "2-QUI
NOLINECARBOXYLIC ACID"/BI OR "2-QUINOLINYLCARBOXYLIC ACID"/BI)

=> s l4 and (microb? or microorg? or bacter? or bioconver? or biotransform? or fung## or biologic#

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6 FILES SEARCHED...
1 FILE BIOSIS
2 FILE BIOTECHABS
10 FILES SEARCHED...
2 FILE BIOTECHDS
13 FILES SEARCHED...
10 FILE CAPLUS
20 FILES SEARCHED...
24 FILES SEARCHED...
2 FILE EMBASE
32 FILES SEARCHED...
34 FILES SEARCHED...
41 FILES SEARCHED...
3 FILE MEDLINE
46 FILES SEARCHED...
51 FILES SEARCHED...
1 FILE SCISEARCH
1 FILE TOXCENTER
60 FILES SEARCHED...
10 FILE USPATFULL
61 FILES SEARCHED...
1 FILE WPIDS
65 FILES SEARCHED...
1 FILE WPINDEX
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11 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L5 QUE L4 AND (MICROB? OR MICROORG? OR BACTER? OR BIOCONVER? OR BIOTRANSFORM?
OR FUNG## OR BIOLOGIC####)

=> s l4 and (cunninghamella or penicillium or absidia or aspergillus or glomerella or diplodia or

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7 FILES SEARCHED...
1 FILE BIOTECHABS
1 FILE BIOTECHDS
12 FILES SEARCHED...
17 FILES SEARCHED...
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24 FILES SEARCHED...
 32 FILES SEARCHED...
 36 FILES SEARCHED...
 41 FILES SEARCHED...
 46 FILES SEARCHED...
 51 FILES SEARCHED...
 60 FILES SEARCHED...
 1 FILE USPATFULL
 61 FILES SEARCHED...
 1 FILE WPIDS
 65 FILES SEARCHED...
 1 FILE WPINDEX

 5 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

 L6 QUE L4 AND (CUNNINGHAMELLA OR PENICILLIUM OR ABSIDIA OR ASPERGILLUS OR GLO
 MERELLA OR DIPLODIA OR ALTERNARIA)

=> s 15 or 16
 4 FILES SEARCHED...
 8 FILES SEARCHED...
 1 FILE BIOSIS
 2 FILE BIOTECHABS
 10 FILES SEARCHED...
 2 FILE BIOTECHDS
 12 FILES SEARCHED...
 13 FILES SEARCHED...
 10 FILE CAPLUS
 15 FILES SEARCHED...
 22 FILES SEARCHED...
 24 FILES SEARCHED...
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 2 FILE EMBASE
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 38 FILES SEARCHED...
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 44 FILES SEARCHED...
 3 FILE MEDLINE
 47 FILES SEARCHED...
 51 FILES SEARCHED...
 57 FILES SEARCHED...
 1 FILE SCISEARCH
 1 FILE TOXCENTER
 60 FILES SEARCHED...
 10 FILE USPATFULL
 61 FILES SEARCHED...
 64 FILES SEARCHED...
 1 FILE WPIDS
 65 FILES SEARCHED...
 1 FILE WPINDEX

11 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L7 QUE L5 OR L6

=> d rank
 F1 10 CAPLUS
 F2 10 USPATFULL
 F3 3 MEDLINE
 F4 2 BIOTECHABS
 F5 2 BIOTECHDS
 F6 2 EMBASE
 F7 1 BIOSIS
 F8 1 SCISEARCH
 F9 1 TOXCENTER
 F10 1 WPIDS
 F11 1 WPINDEX

=> file hits		
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	ENTRY	SESSION
FULL ESTIMATED COST	29.15	51.39

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s 17
2 FILES SEARCHED...
4 FILES SEARCHED...
5 FILES SEARCHED...
7 FILES SEARCHED...
8 FILES SEARCHED...
L8 31 L7

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 27 DUP REM L8 (4 DUPLICATES REMOVED)
ANSWERS '1-10' FROM FILE CAPLUS
ANSWERS '11-20' FROM FILE USPATFULL
ANSWERS '21-22' FROM FILE MEDLINE
ANSWERS '23-24' FROM FILE BIOTECHDS
ANSWERS '25-26' FROM FILE EMBASE
ANSWER '27' FROM FILE TOXCENTER

=> d bib abs 1-27

L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
AN 1994:48638 CAPLUS
DN 120:48638
TI ***Microbial*** metabolism of quinoline and related compounds. XX.
Quinaldic ***acid*** 4-oxidoreductase from Pseudomonas sp.
AK-2 compared to other prokaryotic molybdenum-containing hydroxylases
AU Sauter, Monika; Tshisuaka, Barbara; Fetzner, Susanne; Lingens, Franz
CS Inst. Mikrobiol., Univ. Hohenheim, Stuttgart, D-70593, Germany
SO Biological Chemistry Hoppe-Seyler (1993), 374(11), 1037-46
CODEN: BCHSEI; ISSN: 0177-3593
DT Journal
LA English
AB Quinaldate 4-oxidase (I) from Pseudomonas sp. AK-2 catalyzes the
hydroxylation of ***quinaldic*** ***acid*** (quinoline-2-
carboxylic acid) to kynurenic acid (4-hydroxyquinoline-2-carboxylic acid)
with concomitant redn. of a suitable electron acceptor. An analogous
hydroxylation in the para position relative to the N-heteroatom was only
recently described for ***quinaldine*** 4-oxidase and I from Serratia
marcescens 2CC-1. I from P. putida AK-2 was purified 78-fold to
electrophoretic homogeneity with a recovery of 22%. Native I (mol. wt. =
300 kDa) was composed of 3 subunits with mol. wts. of 90, 34, and 20 kDa,
indicating an .alpha.2.beta.2.gamma.2 structure. I contained FAD, Mo, Fe,
and acid-labile S in a ratio of 2:2:8:8. Mo was probably assocd. with
molybdopterin cytosine dinucleotide as org. part of the pterin Mo
cofactor. The absorption spectrum of I exhibited typical features of a
Mo-Fe/S-flavoprotein, namely, max. at 274, 340, and 450 nm, a shoulder at
550 nm, a A280/A450 ratio of 4.7 and a A450/A550 ratio of 3.5. I was

susceptible to inactivation by MeOH, Na metaarsenite, p-hydroxymercuribenzoate, and KCN. Cyanide caused an alteration in the absorption spectrum, typical for the change in the coordination sphere of the Mo. I inactivated with cyanide was reactivated to 74% by incubation with sulfide. Thus, I possesses a monooxomonosulfide-type Mo center.

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2001:520521 CAPLUS

DN 136:14981

TI ANN modeling of the penetration across a polydimethylsiloxane membrane from theoretically derived molecular descriptors

AU Agatonovic-Kustrin, S.; Beresford, R.; Yusof, A. P. M.

CS School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, 11800, Malay.

SO Journal of Pharmaceutical and Biomedical Analysis (2001), 26(2), 241-254
CODEN: JPBADA; ISSN: 0731-7085

PB Elsevier Science B.V.

DT Journal

LA English

AB A quant. structure-permeability relationship was developed using Artificial Neural Network (ANN) modeling to study penetration across a polydimethylsiloxane membrane. A set of 254 compds. and their exptl. derived max. steady state flux values used in this study was gathered from the literature. A total of 42 mol. descriptors were calcd. for each compd. A genetic algorithm was used to select important mol. descriptors and supervised ANN was used to correlate selected descriptors with the exptl. derived max. steady-state flux through the polydimethylsiloxane membrane (log J). Calcd. mol. descriptors were used as the ANN's inputs and log J as the output. Developed model indicates that mol. shape and size, inter-mol. interactions, hydrogen-bonding capacity of drugs, and conformational stability could be used to predict drug absorption through skin. A 12-descriptor nonlinear computational neural network model has been developed for the estn. of log J values for a data set of 254 drugs. Described model does not require exptl. parameters and could potentially provide useful prediction of membrane penetration of new drugs and reduce the need for actual compd. synthesis and flux measurements.

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1998:223669 CAPLUS

DN 128:299454

TI An investigation of the mechanism of flux across polydimethylsiloxane membranes by use of quantitative structure-permeability relationships

AU Cronin, M. T. D.; Dearden, J. C.; Gupta, R.; Moss, G. P.

CS School of Pharmacy and Chemistry, Liverpool John Moores University, Liverpool, L3 3AF, UK

SO Journal of Pharmacy and Pharmacology (1998), 50(2), 143-152
CODEN: JPPMAB; ISSN: 0022-3573

PB Royal Pharmaceutical Society of Great Britain

DT Journal

LA English

AB Quant. structure-permeability relationships (QSPRs) based on readily calcd. parameters have been developed to study penetration across a polydimethylsiloxane membrane. Maximum steady-state flux values for 256 compds. through a polydimethylsiloxane membrane were taken from previous studies. Forty-three physicochem. parameters were calcd. for each compd. and their significance to flux detd. Removal of fourteen outliers enabled derivation of a significant three-parameter QSPR based on the no. of hydrogen-bond acceptor and donor groups and sixth-order path mol. connectivity. Models based on parameters important for penetration across human skin (log P and mol. wt.) were comparatively poor. This model suggests that the mechanism of flux across a polydimethylsiloxane membrane is based mainly on hydrogen-bonding effects; as such it occurs via a mechanism of action different from that of penetration of the skin in man.

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1995:943483 CAPLUS

DN 123:339767

TI Preparation of naphthalene and quinoline derivatives as glycoprotein GP IIb/IIIa antagonists

IN Ashimori, Atsuyuki; Yoshida, Tomohiro; Ono, Shinichiro; Eda, Masahiro; Kosaka, Keigo; Mori, Fumio; Inoe, Yoshihisa; Imada, Mitsuaki; Ikegawa, Ruriko; Et, Al.

PA Green Cross Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07179407	A2	19950718	JP 1994-278180	19941111
PRAI	JP 1993-282938		19931112		
OS	MARPAT 123:339767				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; A = ENHC(:NH), ENHC(:NH)NH, ENH(CH₂)_e; wherein E = H, amidino, guanidino, NH₂-protective group; B = Q - Q₃; wherein D = (Z)g(CH₂)hCO₂R₅; Z = O, NR₆; R₁, R₂, R₃, R₄ = H, alkyl, halo, acyl, alkoxy; R₆ = H, alkyl, cycloalkyl, aralkyl; R₆ = H, alkyl, aralkyl; G = CH, N; L, M = O, NR₆; a, c, g, m = 0,1; b, d, e, h = 0,1-3, f = 1-3; n = 1,2], which inhibit blood platelet aggregation, have long-lasting serum life, little side-effects, and low toxicity, can be administered orally, and are useful for the treatment and prevention of thrombotic diseases or thrombus formation during surgery and circulation outside the body, are prepd. Thus, 6-cyano- ***2*** - ***quinolinecarboxylic***
 acid was condensed with tert-Bu trans-(4-aminocyclohexyloxy)acetate by using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride in DMF at room temp. to give a quinoline deriv. (II; G = N, R = tert-Bu, R₇ = cyano). II (G = CH, R = amidino, R₇ = H) in vitro showed IC₅₀ of 0.050 .mu.M for inhibiting the human blood platlet aggregation induced by ADP.

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:207918 CAPLUS
 DN 120:207918

TI Comparative molecular field analysis combined with physicochemical parameters for prediction of polydimethylsiloxane membrane flux in isopropanol

AU Liu, Rong; Matheson, Lloyd E.
 CS Lederle lab., Am. Cyanamid Co., Pearl River, NY, 10965, USA
 SO Pharmaceutical Research (1994), 11(2), 257-66
 CODEN: PHREEB; ISSN: 0724-8741

DT Journal
 LA English

AB Comparative mol. field anal. (COMFA) combined with various physicochem. parameters were used to develop 3-dimensional quant. structure-transportability relationships (3-D QSTR) to predict membrane flux for 108 arom. and heteroarom. compds. through polydimethylsiloxane (PDMS) membranes in iso-Pr alc. (IPA). Sybyl, a comprehensive computational mol. modeling package, was used to analyze the data. Optimized mol. models were selected using mol. modeling techniques. Partial least-squares (PLS) regression combined with cross validation or bootstrapping was used as the statistical method to establish the predictive models. Prediction was good for the steady-state flux using both steric and electrostatic field descriptors combined with a functional group classification technique. Predictive ability was substantially increased in a model using COMFA descriptors along with log mole fraction soly. for the penetrants in isopropanol, a hydrophobic term, fchex, which is used to est. the partition coeff. between cyclohexane and water, and the addn. of an intramol. hydrogen bonding (1HB) term. The cross validated r² and the conventional r² for this model were 0.951 and 0.973, resp. Excellent predictions are demonstrated for the membrane flux of the compds. both inside and outside the data domain.

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:480073 CAPLUS
 DN 119:80073

TI The development of a predictive method for the estimation of flux through polydimethylsiloxane membranes. IV. Application to a series of substituted quinolines

AU Matheson, Lloyd E.; Hu, Mengwei
 CS Coll. Pharm., Univ. Iowa, Iowa City, IA, 52242, USA
 SO Pharmaceutical Research (1993), 10(6), 839-42
 CODEN: PHREEB; ISSN: 0724-8741

DT Journal
LA English
AB The steady-state flux of 33 substituted quinoline derivs. was detd. in polydimethylsiloxane membranes using iso-Pr alc. as the receiver solvent. These diffusants constituted a diverse group of compds. possessing a wide range of hydrophobic, steric, and electronic characteristics. Various parameters representing these physicochem. properties such as cyclohexane-water fragmental consts., molar refractivity, Hammett's σ consts., intramol. hydrogen bonding ability, m.p., and mole fraction soly. were employed to develop empirical models capable of relating the rate of diffusion to these characteristics of either the substituent on the quinoline ring or the compd. itself.

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1992:612287 CAPLUS
DN 117:212287

TI Development of a novel series of styrylquinoline compounds as high-affinity leukotriene D4 receptor antagonists: synthetic and structure-activity studies leading to the discovery of (+-)-3-[[[3-[2-(7-chloro-2-quinolinyl)-(E)-ethenyl]phenyl][3-(dimethylamino)-3-oxopropyl]thio]methyl]thio]propionic acid
AU Zamboni, R.; Belley, M.; Champion, E.; Charette, L.; DeHaven, R.; Frenette, R.; Gauthier, J. Y.; Jones, T. R.; Leger, S.; et al.
CS Merck Frosst Cent. Therapeut. Res., Pointe Claire-Dorval, QC, H9R 4P8, Can.
SO Journal of Medicinal Chemistry (1992), 35(21), 3832-44
CODEN: JMCMAR; ISSN: 0022-2623

DT Journal
LA English
GI

/ Structure 4 in file .gra /

AB Based on LTD4 receptor antagonist activity of quinolinylethenylpyridine I found in broad screening, structure-activity studies were carried out which led to the identification of styrylquinoline II (R = NMe2) (III; MK-571) as a potent and orally active LTD4 receptor agonist. These studies demonstrated that a Ph ring could replace the pyridine in I without loss of activity, that 7-halogen substitution in the quinoline group was optimal for binding, that the (E)-ethenyl linkage was optimal, that binding was enhanced by incorporation of a polar acidic group or groups in the 3-position of the aryl ring, and that two acidic groups could be incorporated via a dithioacetal formed from thiopropionic acid and the corresponding styrylquinoline 3-aldehyde to yield compds. such as II (R = OH) (IC50 = 3 mmol vs [3H]LTD4 binding to the guinea pig lung membrane). It was found that one of the acidic groups could be transformed into a variety of the amides without loss of potency and that the III embodied the optimal properties of intrinsic potency (IC50 = 0.8 mmol on guinea pig lung LTD4 receptor) and oral in vivo potency in the guinea pig, hyperreactive rat, and squirrel monkey. The evolution of I to III involves the increase of >6000-fold in competition for [3H]LTD4 binding to guinea pig lung membrane and a >30-fold increase in oral activity as measured by inhibition of antigen-induced dyspnea in hyperreactive rats.

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1992:210067 CAPLUS
DN 116:210067

TI Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase
AU Banasik, Marek; Komura, Hajime; Shimoyama, Makoto; Ueda, Kunihiro
CS Fac. Med., Kyoto Univ., Kyoto, 606, Japan
SO Journal of Biological Chemistry (1992), 267(3), 1569-75
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English
AB Two classes of enzymes, poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferases, catalyze covalent attachment of multiple or single residues, resp., of the ADP-ribose moiety of NAD to various proteins. In order to find good inhibitors of poly(ADP-ribose) synthetase free of side actions and applicable to in vivo studies, a large scale survey was made using an in vitro assay system, and many potent inhibitors were found. The four strongest were 4-amino-1,8-naphthalimide, 6(5H)- and 2-nitro-6(5H)-phenanthridinones, and 1,5-dihydroxyisoquinoline. Their 50% inhibitory concns., 0.18-0.39 μ M, were about two orders of magnitude

lower than that of 3-aminobenzamide that is currently most popularly used. A common structural feature among all potent inhibitors, including 1-hydroxyisoquinoline, chlorthenoxazin, 3-hydroxybenzamide, and 4-hydroxyquinazoline, in addn. to the four mentioned above, was the presence of a carbonyl group built in a polyarom. heterocyclic skeleton or a carbamoyl group attached to an arom. ring. Most of the inhibitors exhibited mixed-type inhibition with respect to NAD. Comparative studies of the effects on poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase from hen heterophils revealed high specificity of most of the potent inhibitors for poly(ADP-ribose) synthetase. On the other hand, unsatd. long-chain fatty acids inhibited both enzymes, and satd. long-chain fatty acids and vitamin K1 acted selectively on mono(ADP-ribosyl)transferase. The finding of many inhibitors of ADP-ribosyltransferases, esp. poly(ADP-ribose) synthetase, supports the view that ADP-ribosylation of proteins may be regulated by a variety of metabolites or structural constituents in the cell.

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1990:173827 CAPLUS
DN 112:173827

TI The structural basis of the mutagenicity of chemicals in Salmonella typhimurium: The Gene-Tox data base

AU Klopman, Gilles; Frierson, Manton R.; Rosenkranz, Herbert S.
CS Dep. Chem., Case West. Reserve Univ., Cleveland, OH, 44106, USA
SO Mutation Research (1990), 228(1), 1-50
CODEN: MUREAV; ISSN: 0027-5107

DT Journal
LA English

AB The CASE (Computer Automated Structure Evaluation) structure-activity methodol. has been applied to a Gene-Tox derived Salmonella mutagenicity data base consisting of 808 chems. Based upon qual. structural features, CASE identified 29 activating and 3 inactivating structural determinants which correctly predicted the probability of carcinogenicity of 93.7% of the known mutagens and nonmutagens in the data base (sensitivity = 0.998, and specificity = 0.704). Addnl., based upon a qual. structure-activity anal., CASE's performance was even better, leading to a sensitivity of 0.981 and a specificity of 1.000. Using the structural determinants identified in this data base, CASE gave excellent predictions of the mutagenicity of chems. not included in the data base. The identified biophores and biophobes can also be used to investigate the structural basis of the mutagenicity of various chem. classes.

L9 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1989:586893 CAPLUS
DN 111:186893

TI Amino-, acetamido-, and benzamidoquinolines as inhibitors of monoamine oxidase

AU Grinberga, B.; Basko, V.; Smite, A.; Zeila, A.; Prikulis, A.
CS Latv. Gos. Univ., Riga, USSR
SO Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1989), (3), 362-8
CODEN: LZAKAM; ISSN: 0002-3248

DT Journal
LA Russian

AB A series of 17 quinoline derivs. was prepd. and tested in vitro for MAO-inhibiting activity. Tyramine was used as a substrate for swine liver mitochondrial MAO. Acetamidoquinolines, esp. those substituted at positions 2, 3, 4, and 8, were stronger inhibitors than aminoquinolines, and benzamidoquinolines were the weakest inhibitors. At concns. 10⁻⁴-10⁻³M the derivs. were competitive inhibitors, at higher concns. they became noncompetitive inhibitors. The type and position of the substituent had profound effects on the MAO-inhibiting activity.

L9 ANSWER 11 OF 27 USPATFULL

DUPLICATE 1

AN 2002:85185 USPATFULL

TI ***Microbial*** conversion of bicyclic heteroaromatic compounds

IN Cawley, James J., Lyme, CT, UNITED STATES
Wong, John W., East Lyme, CT, UNITED STATES

PI US 2002045225 A1 20020418
AI US 2001-924292 A1 20010808 (9)

PRAI US 2000-224089P 20000809 (60)

DT Utility

FS APPLICATION

LREP Gregg C. Benson, Pfizer Inc., Patent Department, MS 4159, Eastern Point Road, Groton, CT, 06340

CLMN Number of Claims: 24

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1204

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to processes for the ***microbial*** oxidation of bicyclic heteroaromatic compounds which comprise contacting these compounds with a ***microorganism***, or a suitable mutant thereof, and incubating the resulting mixture under conditions sufficient to yield an amount of their respective carboxylic acids. The present processes optionally further comprise the isolation and purification of the product carboxylic acids.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 27 USPATFULL

AN 2002:224622 USPATFULL

TI Lavendamycin analogs, quinoline-5,8-diones and methods of using them

IN Behforouz, Mohammad, Muncie, IN, United States

Behforouz, Nancy C., Muncie, IN, United States

PA Ball State University, Muncie, IN, United States (U.S. corporation)

PI US 6444684 B1 20020903

AI US 2000-515785 20000229 (9)

RLI Division of Ser. No. US 1997-962427, filed on 31 Oct 1997, now patented, Pat. No. US 6030983, issued on 29 Feb 2000 Continuation-in-part of Ser. No. US 1995-476213, filed on 7 Jun 1995, now patented, Pat. No. US 5712289 Continuation-in-part of Ser. No. US 1994-345509, filed on 28 Nov 1994, now patented, Pat. No. US 5646150 Continuation-in-part of Ser. No. US 1993-71648, filed on 4 Jun 1993, now patented, Pat. No. US 5525611

DT Utility

FS GRANTED

EXNAM Primary Examiner: Aulakh, Charanjit S.

LREP Brinks Hofer Gilson & Lione

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 3 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 2871

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides novel lavendamycin analogs having the following general formula: ##STR1##

and quinoline-5,8-diones having the following formula: ##STR2##

Methods of making and using and compositions containing these compounds are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 27 USPATFULL

AN 2001:97923 USPATFULL

TI Compositions and methods for treating bone deficit conditions

IN Petrie, Charles, Woodinville, WA, United States

Orme, Mark W., Seattle, WA, United States

Baindur, Nand, Edmonds, WA, United States

Robbins, Kirk G., Renton, WA, United States

Mundy, Gregory R., San Antonio, TX, United States

PA ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

PI US 6251901 B1 20010626

AI US 1997-806769 19970226 (8)

RLI Continuation of Ser. No. US 1996-736220, filed on 23 Oct 1996, now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Criares, Theodore J.

LREP Morrison & Foerster LLP

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN 91 Drawing Figure(s); 91 Drawing Page(s)

LN.CNT 1108

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds containing two aromatic systems covalently linked through a linker containing one or more atoms, or "linker" defined as including a covalent bond per se so 29

as to space the aromatic systems at a distance 1.5-15.ANG., are effective in treating conditions associated with bone deficits. The compounds can be administered to vertebrate subjects alone or in combination with additional agents that promote bone growth or that inhibit bone resorption. They can be screened for activity prior to administration by assessing their ability to effect the transcription of

a reporter gene coupled to a promoter associated with a large morphogenetic protein and/or their ability to stimulate ovarian growth in model animal systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 27 USPATFULL
AN 2000:128406 USPATFULL
TI Antimicrobial denture adhesive and cleanser compositions
IN Kolias, Fred G., Bedminster, NJ, United States
Wong, Eddie, New Providence, NJ, United States
Gasman, Robert C., Montville, NJ, United States
PA Block Drug Company, Inc., Jersey City, NJ, United States (U.S. corporation)
PI US 6124374 20000926
AI US 1998-87741 19980529 (9)
DT Utility
FS Granted
EXNAM Primary Examiner: Rose, Shep K.
LREP Dann Dorfman Herrell and Skillman
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 595

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An antimicrobial denture adhesive, denture cleansing creme or denture soaking or brushing composition comprises a combination of 8-hydroxyquinoline (or its salt) and at least one copper(II) salt. The composition fights denture stomatitis by inhibiting Candida albicans.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 27 USPATFULL
AN 2000:24657 USPATFULL
TI Lavendamycin analogs, quinoline-5,8-diones and methods of using them
IN Behforouz, Mohammad, Muncie, IN, United States
Behforouz, Nancy C., Muncie, IN, United States
PA Ball State University, Muncie, IN, United States (U.S. corporation)
PI US 6030983 20000229
AI US 1997-962427 19971031 (8)
RLI Continuation-in-part of Ser. No. US 1995-476213, filed on 7 Jun 1995, now patented, Pat. No. US 5712289 which is a continuation-in-part of Ser. No. US 1994-345509, filed on 28 Nov 1994, now patented, Pat. No. US 5646150 which is a continuation-in-part of Ser. No. US 1993-71648, filed on 4 Jun 1993, now patented, Pat. No. US 5525611
DT Utility
FS Granted
EXNAM Primary Examiner: Rotman, Alan L.
LREP Brinks Hofer Gilson & Lione
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 3180

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides novel lavendamycin analogs having the following general formula: ##STR1## and quinoline-5,8-diones having the following formula: ##STR2## Methods of making and using and compositions containing these compounds are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 27 USPATFULL
AN 1998:9515 USPATFULL
TI Quinoline-5,8-diones and methods of using them
IN Behforouz, Mohammad, Muncie, IN, United States
Merriman, Ronald L., Ann Arbor, MI, United States
PA Ball State University, Muncie, IN, United States (U.S. corporation)
PI US 5712289 19980127
AI US 1995-476213 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-345509, filed on 28 Nov 1994, now patented, Pat. No. US 5646150 which is a continuation-in-part of Ser. No. US 1993-71648, filed on 4 Jun 1993, now patented, Pat. No. US 5525611
DT Utility
FS Granted
EXNAM Primary Examiner: Rotman, Alan L.
LREP Brinks Hofer Gilson & Lione

CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 3114

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides quinoline-5,8-diones having the following formula: ##STR1## wherein X, Z and R.sup.1 through R.sup.3 are defined in the specification, and salts of these quinolinediones. The invention also provides a method of making the quinolinediones. The quinolinediones have antitumor activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 27 USPATFULL
AN 97:59208 USPATFULL
TI Methods of using lavendamycin analogs
IN Behforouz, Mohammad, Muncie, IN, United States
Merriman, Ronald L., Indianapolis, IN, United States
PA Ball State University, Muncie, IN, United States (U.S. corporation)
PI US 5646150 19970708
AI US 1994-345509 19941128 (8)
RLI Continuation-in-part of Ser. No. US 1993-71648, filed on 4 Jun 1993, now patented, Pat. No. US 5525611
DT Utility
FS Granted
EXNAM Primary Examiner: Rotman, Alan L.
LREP Brinks Hofer Gilson & Lione
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 2817

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides lavendamycin analogs having the following formula: ##STR1## wherein X, Y and R.sup.1 through R.sup.9 are defined in the specification, and salts of these analogs. The invention also provides a method of making the lavendamycin analogs. The lavendamycin analogs have antitumor and antimicrobial activity. Also, methods of treating cancer using lavendamycin methyl ester, 7-butyramido-
- ***methylquinoline*** -5,8-dione or 7-butyramido-2-formylquinoline-5,8-dione.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 27 USPATFULL
AN 96:50908 USPATFULL
TI Lavendamycin analogs and methods of making and using them
IN Behforouz, Mohammad, 2919 W. Beechwood Ave., Muncie, IN, United States 47304
Merriman, Ronald L., 5246 Wilton Wood Ct., Indianapolis, IN, United States 46254
PI US 5525611 19960611
AI US 1993-71648 19930604 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Rotman, Alan L.
LREP Willian Brinks HoferGilson & Lione
CLMN Number of Claims: 35
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2501

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides lavendamycin analogs having the following formula: ##STR1## wherein X, Y and R.sup.1 through R.sup.9 are defined in the specification, and salts of these analogs. The invention also provides a method of making the lavendamycin analogs. The lavendamycin analogs have antitumor and antimicrobial activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 19 OF 27 USPATFULL
AN 76:34891 USPATFULL
TI Enzymatic determination of glucose
IN Banauch, Dieter, Darmstadt, Germany, Federal Republic of
Brummer, Wolfgang, Darmstadt, Germany, Federal Republic of
Ebeling, Wolfgang, Darmstadt, Germany, Federal Republic of
Helger, Roland, Darmstadt, Germany, Federal Republic of
Hennrich, Norbert, Darmstadt, Germany, Federal Republic of

PA Lang, Hermann, Darmstadt, Germany, Federal Republic of
Merck Patent Gesellschaft mit beschränkter Haftung, Darmstadt, Germany,
Federal Republic of (non-U.S. corporation)
PI US 3964974 19760622
AI US 1973-395547 19730910 (5)
PRAI DE 1972-2247608 19720928
DT Utility
FS Granted
EXNAM Primary Examiner: Naff, David M.
LREP Millen, Raptis & White
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 657

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Glucose is rapidly and quantitatively determined with an analytical agent containing glucose dehydrogenase having an activity of at least 2 .mu./mg and NADH.sub.2 oxidase activity less than 0.1%, a pyridine coenzyme, a buffer and mutarotase to increase spontaneous mutarotation of alpha-glucose to beta-glucose. There may be optionally present inhibitors for reduced pyridine coenzyme oxidases and a thermal stabilizing amount of alkali metal chloride.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 20 OF 27 USPATFULL
AN 73:6971 USPATFULL
TI ASSAYING WITH CHANGE IN ELECTRON SPIN RESONANCE SPECTRUM BASED ON CHIRALITY
IN Ullman, Edwin F., Atherton, CA, United States
Schneider, Richard S., Sunnyvale, CA, United States
PA Syva Corp., Palo Alto, CA, United States (U.S. corporation)
PI US 3716335 19730213
AI US 1971-139905 19710503 (5)
DT Utility
FS Granted
EXNAM Primary Examiner: Scovronek, Joseph
LREP Townsend & Townsend
CLMN Number of Claims: 15
DRWN No Drawings
LN.CNT 1014

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and compounds are provided for determining amounts of energy or chemical reagents in a fluid medium by introducing into the medium a sensor which is a stable nitroxide radical functionality bonded through a methylene group to a central atom bonded to a plurality of functionalities, at least one of which participates in a chemical change, which results in a change of asymmetry about the carbon atom bonded to the methylene group.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 27 MEDLINE
AN 79216166 MEDLINE
DN 79216166 PubMed ID: 110773
TI Transient growth inhibition of Escherichia coli K-12 by ion chelators: "in vivo" inhibition of ribonucleic acid synthesis.
AU Collins J J; Alder C R; Fernandez-Pol J A; Court D; Johnson G S
SO JOURNAL OF BACTERIOLOGY, (1979 Jun) 138 (3) 923-32.
Journal code: 2985120R. ISSN: 0021-9193.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197909
ED Entered STN: 19900315
Last Updated on STN: 19900315
Entered Medline: 19790927
AB The ion chelators picolinic acid, ***quinaldic***, ***acid***, 1,10-phenanthroline, and 8-hydroxyquinoline, but not ethylenediaminetetraacetate, ethyleneglycol-bis-(beta-aminoethyl ether)-N,N-tetraacetate, or dipicolinic acid, rapidly but transiently arrest growth of Escherichia coli K-12. Cells adapt and become resistant to growth inhibition by these agents, a process which requires protein synthesis. Mn2+, at low concentrations, decreases the time required for resumption of growth. Proteins synthesized during the lag are quantitatively and qualitatively different from those synthesized during

normal growth. Inhibition of growth can be explained by an effect on RNA polymerase, a known metalloenzyme.

L9 ANSWER 22 OF 27 MEDLINE
AN 78007876 MEDLINE
DN 78007876 PubMed ID: 903921
TI Quinoline derivatives as antiallergy agents. 2. Fused-ring
quinaldic acids***
AU Hall C M; Wright J B; Johnson H G; Taylor A J
SO JOURNAL OF MEDICINAL CHEMISTRY, (1977 Oct) 20 (10) 1337-43.
Journal code: 9716531. ISSN: 0022-2623.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197711
ED Entered STN: 19900314
Last Updated on STN: 19900314
Entered Medline: 19771125
AB A series of compounds containing two or more 4-oxo-1,4-dihydropyridine-2-carboxylic acid units fused to a central aromatic nucleus was synthesized and tested in the rat passive cutaneous anaphylaxis (PCA) assay for potential antiallergy activity. Most of the compounds of this series showed significant activity in the PCA assay. Three of these compounds, 11d, 13f, and 21, were more than 250 times as active as the standard drug, cromolyn sodium. The synthesis and ***biological*** activity are discussed.

218 L25
22
23
24

L9 ANSWER 23 OF 27 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
AN 2003-02098 BIOTECHDS
TI Preparation of bicyclic heteroaromatic carboxylic acids by
microbial oxidation of bicyclic heteroaromatic compounds;
antiinflammatory compound production by oxidation using
Cunninghamella, ***Alternaria***, ***Penicillium***,
Aspergillus, Pseudomonas and Rhodococcus spp.
AU CAWLEY J J; WONG J W
PA CAWLEY J J; WONG J W
PI US 2002045225 18 Apr 2002
AI US 2001-924292 8 Aug 2001
PRAI US 2001-924292 8 Aug 2001; US 2000-224089 9 Aug 2000
DT Patent
LA English
OS WPI: 2002-655172 [70]
AN 2003-02098 BIOTECHDS
AB DERWENT ABSTRACT:
NOVELTY - Carboxylic acids are produced by ***microbial*** oxidation of bicyclic heteroaromatic compounds.
DETAILED DESCRIPTION - Preparation of bicyclic heteroaromatic carboxylic acids: ***2*** - ***quinolinecarboxylic*** acid*** (I), 3-isoquinolinecarboxylic acid (III), 2-indolecarboxylic acid (V), 5-chloro-2-indolecarboxylic acid (VII), 3-quinolinecarboxylic acid (IX) or 8-quinolinecarboxylic acid (XI) comprises incubating ***2*** - ***methylquinoline*** (II), 3-methylisoquinoline (IV), 2-methylindole (VI), 5-chloro-2-methylindole (VIII), 3-methylquinoline (X) or 8-methylquinoline (XII) respectively, with a ***microorganism*** capable of oxidation of the methyl group; and optionally isolating the product by extraction with an organic solvent, followed by chromatography.
ACTIVITY - Antiinflammatory.
MECHANISM OF ACTION - None given in the source material.
USE - The products are useful e.g. for treating inflammation and other immune disorders. 5-Chloro-2 indolecarboxylic acid is useful as an intermediate in the preparation of indole-2-carboxamides, which are inhibitors of glycogen phosphorylase.
EXAMPLE - 3-Methylisoquinoline (0.1 g) was added to a culture of Pseudomonas putida ATCC No. 33015 in incubation medium. After incubation at 29 degrees C, with shaking, for 45 hours, samples were analyzed. Yield of 3-isoquinolinecarboxylic acid was 21%. (14 pages)

L9 ANSWER 24 OF 27 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
AN 1993-14183 BIOTECHDS
TI Aerobic ***biotransformation*** of 4-methylquinoline by a soil
bacterium;
4-methylquinoline degradation by Gram-negative soil ***bacterium***
isolated by enrichment culture (conference abstract)
AU Sutton S D; Shann J R; Vestal J R; Warshawsky D
LO University of Cincinnati, Cincinnati, Ohio 45221-0172, USA.

SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1993) 93 Meet., 353
CODEN: 0005P
DT Journal
LA English
AN 1993-14183 BIOTECHDS
AB A Gram-negative soil ***bacterium*** was isolated from an abandoned coal gasification site by enrichment culture techniques. It utilized 4-methylquinoline as a source of C and energy but required additional cofactors for growth in minimal basal salts medium. The isolate demonstrated substrate specificity for 4-methylquinoline as it was unable to utilize quinoline, ***2*** - ***methylquinoline***, ***quinaldic***, ***acid***, 2-hydroxyquinoline, or isoquinoline as a C-source. Growth studies in liquid medium on a range of 4-methylquinoline concentrations indicated that the organism grew readily at 0.6 mM and was inhibited at 0.9 mM. An unidentified metabolite was extracted from the media at 44 hr and exhibited UV absorbance peaks at 320 nm and 270 nm. Information about the nutrient limitations and degradative abilities of this ***microorganism*** provided an important insight on how this organism may function in a natural environment. (0 ref)

L9 ANSWER 25 OF 27 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
AN 78047974 EMBASE
DN 1978047974
TI Mutagenicities of quinoline and its derivatives.
AU Nagao M.; Yahagi T.; Seino Y.; et al.
CS Biochem. Div., Nat. Cancer Cent. Res. Inst., Tokyo, Japan
SO Mutation Research, (1977) 42/3 (335-342).
CODEN: MUREAV

DT Journal
FS 037 Drug Literature Index
022 Human Genetics
030 Pharmacology
021 Developmental Biology and Teratology
005 General Pathology and Pathological Anatomy

LA English
AB Quinoline, recently reported to be carcinogenic in rats, was mutagenic to Salmonella typhimurium tester strains TA100 and TA98 in the presence of the metabolic activation system S 9 mix. 2 Chloroquinoline, a non carcinogen, was non mutagenic with or without S 9 mix. 8 Hydroxyquinoline, which is not known to be carcinogenic, was mutagenic with S 9 mix to both ***bacterial*** strains. The mutagenicities of 17 other quinoline derivatives that are not known to be carcinogenic were tested, and 12 of these compounds were mutagenic.

L9 ANSWER 26 OF 27 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
AN 77212427 EMBASE
DN 1977212427
TI Mutagenic activity of tryptophan metabolites produced by rat intestinal microflora.
AU Bowden J.P.; Chung K.T.; Andrews A.W.
CS Frederick Cancer Res. Cent., Nat. Cancer Inst., NIH, PHS, USDHEW, Frederick, Md. 21701, United States
SO Journal of the National Cancer Institute, (1976) 57/4 (921-924).
CODEN: JNCIAM

DT Journal
FS 016 Cancer
037 Drug Literature Index

LA English
AB The catabolism of tryptophan by rat intestinal microflora was studied for the production of mutagenic metabolites that might be involved in the etiology of colon cancer. Various tryptophan metabolites were assayed for mutagenic and comutagenic activity in the Ames ***bacterial*** test system. These included metabolites that were identified by thin layer chromatography in cultures of rat fecal ***bacteria***, other compounds structurally related to tryptophan, whole unfractionated mixed fecal ***bacteria*** culture filtrates, and concentrated solvent extracts. A total of 27 materials were tested with 5 Salmonella strains in the mutagenesis assay. Most substances were inactive, and only 1 compound, o aminoacetophenone, which was unlikely to be produced in the intestine, showed weak comutagenic activity. The results did not support the hypothesis that tryptophan metabolites produced by intestinal microflora are major etiologic factors in cancer of the colon.

L9 ANSWER 27 OF 27 TOXCENTER COPYRIGHT 2003 ACS
AN 2002:374018 TOXCENTER
DN EMICBACK-24008

WEST**End of Result Set**☐ **Generate Collection** **Print**

L42: Entry 2 of 2

File: DWPI

Aug 5, 2002

DERWENT-ACC-NO: 2000-500334
DERWENT-WEEK: 200258
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TITLE: Novel method for microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid comprises contacting the microorganisms with an inducer prior to oxidative incubation

INVENTOR: BURNS, M P; CAWLEY, J J ; WONG, J W

PATENT-ASSIGNEE:

ASSIGNEE	CODE
PFIZER PROD INC	PFIZ
PFIZER INC	PFIZ

PRIORITY-DATA: 1999US-119942P (February 12, 1999), 2000US-0492548 (January 27, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3310254 B2	August 5, 2002		015	C12P017/12
EP 1028164 A1	August 16, 2000	E	020	C12P017/12
AU 200016396 A	August 17, 2000		000	C12P017/12
CA 2298427 A1	August 12, 2000	E	000	C12P017/12
JP 2000270889 A	October 3, 2000		053	C12P017/12
HU 200000625 A2	November 28, 2000		000	C12P007/40
CN 1273276 A	November 15, 2000		000	C12P017/12
CZ 200000512 A3	March 14, 2001		000	C12P017/12
KR 2000076650 A	December 26, 2000		000	C07D241/44
BR 200000375 A	August 21, 2001		000	C12P017/12
ZA 200000669 A	September 26, 2001		036	C12P000/00
MX 2000001608 A1	January 1, 2001		000	C12P017/12
US 6361979 B1	March 26, 2002		000	C12P017/16

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3310254B2	February 10, 2000	2000JP-0038207	
JP 3310254B2		JP2000270889	Previous Publ.
EP 1028164A1	February 7, 2000	2000EP-0300936	
AU 200016396A	February 14, 2000	2000AU-0016396	
CA 2298427A1	February 10, 2000	2000CA-2298427	
JP2000270889A	February 10, 2000	2000JP-0038207	
HU 200000625A2	February 11, 2000	2000HU-0000625	
CN 1273276A	February 12, 2000	2000CN-0106543	
CZ 200000512A3	February 11, 2000	2000CZ-0000512	
KR2000076650A	February 12, 2000	2000KR-0006609	
BR 200000375A	February 14, 2000	2000BR-0000375	
ZA 200000669A	February 11, 2000	2000ZA-0000669	
MX2000001608A1	February 15, 2000	2000MX-0001608	
US 6361979B1	February 12, 1999	1999US-119942P	Provisional
US 6361979B1	January 27, 2000	2000US-0492548	

INT-CL (IPC): C07 D 241/44; C12 N 1/14; C12 N 1/20; C12 P 0/00; C12 P 7/40; C12 P 17/12; C12 P 17/16; C12 P 17/18; C12 P 7/40; C12 P 17/12; C12 R 1:00; C12 R 1:00; C12 N 1/14; C12 N 1/14; C12 N 1/14; C12 N 1/14; C12 N 1/20; C12 N 1/20; C12 P 17/12; C12 P 17/12; C12 P 17/12; C12 P 17/12; C12 P 17/12; C12 R 1:01; C12 R 1:01; C12 R 1:38; C12 R 1:38; C12 R 1:645; C12 R 1:645; C12 R 1:65; C12 R 1:65; C12 R 1:66; C12 R 1:66; C12 R 1:80; C12 R 1:80; C12 P 17/12; C12 R 1:65; C12 P 17/12; C12 R 1:645; C12 P 17/12; C12 R 1:66; C12 P 17/12; C12 R 1:38; C12 P 17/12; C12 R 1:80

ABSTRACTED-PUB-NO: EP 1028164A
BASIC-ABSTRACT:

NOVELTY - A method for oxidizing 2-methylquinoxaline to 2-quinoxalinecarboxylic acid comprising contacting 2-methylquinoxaline with Absidia or Pseudomonas, is new.

DETAILED DESCRIPTION - The microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid further comprises contacting 2-methylquinoxaline with Absidia glauca ATCC No. 22752/74480, A. pseudocylindrospora ATCC No. 24169, A. repens ATCC No. 14849/74481, Actinomucor elegans ATCC No. 6476, Alternaria solani ATCC No. 11078, Aspergillus tamaris ATCC No. 16865, Coniophora putanea ATCC No. 12675, Cunninghamella echinulata ATCC No. 8688a/8688b/8983/9244/9245/10028b/2626-9/31690/36112, C. homothallica ATCC No. 16161, Cylindrocarpus destructans ATCC No. 66963, Diplodia gossypina ATCC No. 20575, Epicoccum neglecta ATCC No. 12723, Glomerella lagenaria ATCC No. 14724, Penicillium claviforme ATCC No. 10426, Penicillium duclauxii ATCC No. 10440, Penicillium glabrum ATCC No. 11080, Pseudocochliobolus lunatus ATCC No. 24155, Pseudomonas putida ATCC No. 33015/202190 Rhodococcus rhodochrous ATCC No. 190657 or Thamnostylum piriforme ATCC No. 8686.

USE - The method is used to produce 2-quinoxalinecarboxylic acid.
ABSTRACTED-PUB-NO:

US 6361979B
EQUIVALENT-ABSTRACTS:

NOVELTY - A method for oxidizing 2-methylquinoxaline to 2-quinoxalinecarboxylic acid comprising contacting 2-methylquinoxaline with Absidia or Pseudomonas, is new.

DETAILED DESCRIPTION - The microbial oxidation of 2-methylquinoxaline to 2-quinoxalinecarboxylic acid further comprises contacting 2-methylquinoxaline with Absidia glauca ATCC No. 22752/74480, A. pseudocylindrospora ATCC No. 24169, A. repens ATCC No. 14849/74481, Actinomucor elegans ATCC No. 6476, Alternaria solani ATCC No. 11078, Aspergillus tamaris ATCC No. 16865, Coniophora putanea ATCC No. 12675, Cunninghamella echinulata ATCC No. 8688a/8688b/8983/9244/9245/10028b/2626-9/31690/36112, C. homothallica ATCC No. 16161, Cylindrocarpus destructans ATCC No.

66963, *Diplodia gossypina* ATCC No. 20575, *Epicoccum neglecta* ATCC No. 12723, *Glomerella lagenaria* ATCC No. 14724, *Penicillium claviforme* ATCC No. 10426, *Penicillium duclauxii* ATCC No. 10440, *Penicillium glabrum* ATCC No. 11080, *Pseudocochliobolus lunatus* ATCC No. 24155, *Pseudomonas putida* ATCC No. 33015/202190 *Rhodococcus rhodochrous* ATCC No. 190657 or *Thamnostylum piriforme* ATCC No. 8686.

USE - The method is used to produce 2-quinoxalinecarboxylic acid.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NOVEL METHOD MICROBE OXIDATION ACID COMPRISE CONTACT MICROORGANISM INDUCE PRIOR OXIDATION INCUBATE

DERWENT-CLASS: B02 D16

CPI-CODES: B06-D06; B11-A01; D05-C; D05-H10;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

D012 D750 J0 J011 J1 J111 M280 M320 M412 M511

M520 M530 M540 M720 M904 M905 N131 N132 N209 N222

N341 N411 Q233

Specific Compounds

A28R0K A28R0P

Chemical Indexing M2 *02*

Fragmentation Code

D012 D750 M210 M211 M240 M281 M320 M412 M511 M520

M530 M540 M730 M904 M905

Specific Compounds

A28R3K A28R3S

Chemical Indexing M2 *03*

Fragmentation Code

G012 G100 M210 M211 M240 M282 M320 M414 M510 M520

M531 M540 M610 M730 M904 M905 M910

Specific Compounds

00845K 00845S

Registry Numbers

0845S 0845U

Chemical Indexing M2 *04*

Fragmentation Code

G013 G100 M210 M211 M240 M282 M320 M414 M510 M520

M531 M540 M610 M730 M904 M905 M910

Specific Compounds

00785K 00785S

Registry Numbers

0785S 0785U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0785S; 0785U ; 0845S ; 0845U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-150315